

## SEQUENCE LISTING

<110> Frudakis, Tony N.  
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 Retter, Marc W.  
 Dillon, Davin C.

<120> COMPOSITIONS AND METHODS FOR THE  
 TREATMENT AND DIAGNOSIS OF BREAST CANCER

<130> 210121.419C7

<140> US  
 <141> 2000-03- 23

<160> 317

<170> FastSEQ for Windows Version 3.0

<210> 1  
 <211> 363  
 <212> DNA  
 <213> Homo sapien

<400> 1

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 cacctccagg aggcttatcg gatttacacc cctttgacc tggcagcccc cgaaaatagc  
 catgctcta atttggcatt tgtggcttag gcagccccag atagaaaaag gaaactccaa  
 aaactagagg gattttgctg gaatgaatac cagtcagctt ttagagatag cctaaaaggt  
 ttt

60  
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 180  
 240  
 300  
 360  
 363

<210> 2  
 <211> 121  
 <212> PRT  
 <213> Homo sapien

<400> 2

Leu Glu Thr Gln Leu Gly Pro Asn Trp Asp Pro Asn Phe Ser Ser Gly  
 1 5 10 15  
 Gly Arg Thr Phe Asp Asp Phe His Arg Tyr Leu Leu Val Gly Ile Gln  
 20 25 30  
 Gly Ala Ala Gln Lys Pro Ile Asn Leu Ser Lys Ala Ile Glu Val Val  
 35 40 45  
 Gln Gly His Asp Glu Ser Pro Gly Val Phe Leu Glu His Leu Gln Glu  
 50 55 60  
 Ala Tyr Arg Ile Tyr Thr Pro Phe Asp Leu Ala Ala Pro Glu Asn Ser

65	70	75	80
His Ala Leu Asn	Leu Ala Phe Val Ala	Gln Ala Ala Pro Asp Ser	Lys
	85	90	95
Arg Lys Leu Gln	Lys Leu Glu Gly Phe	Cys Trp Asn Glu Tyr	Gln Ser
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Ala Phe Arg Asp Ser	Leu Lys Gly Phe		
	115	120	

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<210> 3
<211> 1080
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1080)
<223> n = A,T,C or G
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<400> 3  
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tcttcaagc ctaacagatc aagcagctc cgggtcaca acctgcgccc aggtaaatgc  
caaaaaaggt cctaaaccca gcccaggcca ccgtctccaa gaaaactcac caggagaaaa  
gtggaaatt gacttacag aagtaaaacc acacgggct gggtacaaat accttctagt  
actggtagac accttctcg gatggactga agcatttgtc accaaaaacg aaactgtcaa  
tatggtagtt aagttttac tcaatgaaat catccotcga cgtggctgc ctgttgccat  
agggtctgat aatggAACgg cttcgcctt gtctatagtt taatcagtca gtaaggcggt  
aaacattcaa tggaaagctcc attgtgccta tcgaccaga gctctggca agtagaacgc  
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tgttagtctc cttcccttag ccctacttag agttaaggta cacccttac tgggctgggt  
ctttacctt ttgaaatcat nttnnggaag gggctgccta tcttnctta actaaaaaan  
gccctttgg caaaaatttc ncaactaatt tntacgtnc tacgtctccc caacaggtan  
aaaaatctnc tgccctttc aaggaaccat cccatccatt cttnaacaat aggctgcnn  
ttcttcccccc agttaactnt ttttnttta aattcccaa aaangaaccn cctgctggaa  
aaacncccccc ctccaanccc cggccnaagn ggaagggttcc tttgaatccc nccccncna  
angggcccgga accnttaaan tngttccnng ggttnnggccc taaaagnccn atttggtaaa  
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1020  
1080

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<210> 4
<211> 1087
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(1087)
<223> n = A, T, C or G
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caaggtaggcc ctttaaacta ctcacctgtg ttgtcttcta atttattctq ttttattttq 120

tttccatcat tttaagggt taaaatcatc ttgttcagac ctcagcatat aaaatgaccc 180  
 atctgttagac ctcaaggctcc aaccataccca caagagttgt ctggtttgt tttaaattact 240  
 gccaggttc agctgcagat atccctggaa ggaatattcc agattccctg agtagttcc 300  
 aggttaaaat cctataggtct tcttctgttt tgaggaagag ttccctgtcag agaaaaaacat 360  
 gattttggat tttaacttt aatgctgtg aaacgctata aaaaaaattt tctaccctta 420  
 gctttaaagt actgttagtg agaaaattaaa attccttcag gaggattaaa ctgccatttc 480  
 agttacccta attccaaatg ttttgggtt tagaatcttc tttaatgttc ttgaagaagt 540  
 gttttatatt ttcccatcna gataaattct ctcncncctt nntttntnt ctnnttttt 600  
 aaaaacggant ctgtccgt tgcangct gggaaattttt ttttggccaa ttcgcctnc 660  
 ctgcanaaa tnctgcntcc caaaatttacc nccttttcc cacctccacc cccnggaatt 720  
 acctggaatt anaggcccccc nccccccccc cgctaatatt gttttgttt ttagtaaaaaa 780  
 acgggttcc tgttttagtt aggtggccc anntctgacc ccntnatcnt cccctcngc 840  
 ctcnaatnt tnggnntang gcttacccccc cccngnnngtt tttcctccat tnaaattttc 900  
 tntggantct tgaatnncgg gttttccctt taaaaccnat tttttttttn nnncccccan 960  
 ttttncctcc ccntntnta angggggttt cccaancgg gtcncncccc angtccccaa 1020  
 ttttctccc cccccccttt ttttcttnc cccaaaantc cttatctttc ctnnaaatat 1080  
 cnantnt 1087

<210> 5  
 <211> 1010  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (1010)  
 <223> n = A, T, C or G

<400> 5

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 aggttaacaca catactatct cccaaatacc tacccacaag ctcaacaatt tttaaactgtt 180  
 aggtcactg gcttaatca ccatgacatg aggtcaccac caaaccatca agcgctaaac 240  
 agacagaatg ttccactcc tgatccactg tggggaga agcaccgaac ttacccactg 300  
 gggggcctgc ntcanananaa aagcccatgc cccgggtnt ncctttnaac cggaacgaat 360  
 naaccacca tccccacanc tcctctgttc ntggccctg catctgtgg cctcntntnc 420  
 ttnggggan acntggggaa ggtacccat ttcttgacc ccnnananaa accccngtgg 480  
 cccttgcctc tgattcnntt gggcctttc tctttccct tttgggttgt tttaaattccc 540  
 aatgtccccn gaaccctctc ctnctgccc aaaacctacc taaatnntc nctangnntt 600  
 ttcttggtgt tnctttcaa aggttacccat ncctgttcan ncccnacnaa aattnttcc 660  
 ntatnntgnn cccnnnaaaa nnatcncc cnaattgccc gaattggtn ggttttccct 720  
 nctggggaa accctttaaa ttccccctt ggcggcccc ccttttcc ccccttngaa 780  
 aggcaggngg ttctccctga acttccaaatt ncaacagccn tgcccatgn tgaaaccctt 840  
 ttctaaaat taaaaatan ccggtnnng nnggccttt tccctccng gnnggnngng 900  
 aaantccta cccnnaaaa ggttgcttag ccccnngtcc ccactcccccc ngaaaaaattn 960  
 aacctttcn aaaaaaggaa tataanttn ccactccttn gttctcttcc 1010

<210> 6  
 <211> 950  
 <212> DNA  
 <213> Homo sapien

SubA

<220>  
 <221> misc\_feature  
 <222> (1)...(950)  
 <223> n = A,T,C or G

<400> 6

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 ctgggattac aggctgca a caccacaccc ggctaa tttt gat tttt a tagagatggg 120  
 gtttccctt gttggccann atggtctcna acccctgacc tcnnngtgc tc ccccncccn 180  
 nganctcna ctgctggga tnnccgnnnn nnnccctccn ncncnnnnn ncncnntccn 240  
 tnnccctnc tcnncnnnnn cnntcnnntcc nnctctcnc cnntnttnt cnncnnccnn 300  
 cnncncnent nccncnnnt tcnctncnn tntccnnnn nntcncnnn cnncnnntnn 360  
 ccnnntacntc ntncncnnnt ccntctntnn cctcnnccnt cnctncncnt tntctcctcn 420  
 ntncnnnnntct ccnnnnntct ctnctncnccn tncctcnntn ncncncncnc ncctcncnc 480  
 ctnttttncn cnncnnntcc ntncnttccn nntccnnntnn cnncntcncn nnctnttntc 540  
 ccncnnnttc cttnccntn nnntntcnn cncntcncnt ntttntctt nnntccncnnc 600  
 tcnnttcnc cncntcnc cccncctnt ctctcncnccn nntnnntntn nnncntccnc 660  
 tntcncntt ctnctncnt tntctncnc nncntncnc tncntntnt cnncntcncn 720  
 tcnctntcn ccntccntt ctntctctn tntcttccc ctncctntct cttcncncnc 780  
 ccntntntn tnnccncnnt nctnnncnnc ctnctttcn tctctntnn nnntnnccntc 840  
 nnccntnc ctnntncnct nctnntaccc tntctntccn ttttcccttcc 900  
 950

<210> 7

<211> 1086

<212> DNA

<213> Homo sapien

<220>

<221> misc\_feature

<222> (1)...(1086)

<223> n = A,T,C or G

<400> 7

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 agaaaaattc ttctgcctt agatgtgtt aatctgtaa cctagcccc accctgtgt 180  
 cacagagaca tggctgtgt tgactcaagg ttcaatggat ttagggctat gctttgtt 240  
 aaaagtgtttt gaagataata tgcttgcata aagtcatcac cattcttataa tctcaagttac 300  
 ccagggacac aatacactgc ggaaggccgc agggacctct gtctaggaaa gccaggtatt 360  
 gtccaaagatt tctccccatg tgatagccctg agatatggcc tcatggaaag ggtttagac 420  
 gactgtcccc cagccgcaca tccccccagcc cgacatcccc cagccgcaca cccggaaaagg 480  
 gtctgtgtgtt aggaagatta ntaaaagagg aaggctctt gcattgaagt aagaagaagg 540  
 ctctgtctcc tgctcgtccc tggcaataa aatgtcttgg tggtaaacc gatgtatgt 600  
 tctacttact gagaatagga gaaaacatcc ttagggctgg aggtgagaca ccctggccgc 660  
 atactgtctt ttaatgcacg agatgtttgt ntattgcac tccaggccca nccctttcc 720  
 ttaactttt atganacaaa aactttgttc nctttccctg cgaacctctc ccccttattan 780  
 cttattggcc tgcccatccc ctccccaaan ggtgaaaana tggtcataaa tncgaggaa 840  
 tccaaaacnt tttcccgtt gttcccttcc caaccccgtc cctggccnn tttccctcc 900  
 aacntgtccc ggntccttcn ttcccncccc cttccngan aaaaaacccc gtntgangn 960

Syntax

0 1 2 3 4 5 6 7 8 9

gccccctcaa attataacct ttccnaaaca aanngttcn aaggtggttt gnttccggtg 1020  
 cggctggcct tgggtcccc cctncacccc aatttggaaan ccngttttt ttattgccc 1080  
 ntcccc 1086

<210> 8  
 <211> 1177  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (1177)  
 <223> n = A, T, C or G

<400> 8

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 aagcatcctg gagatcaga gtttactgtt agatcagcct catttgcatt cccctccac 120  
 atgggttta aatccagcta cactacttcc tgactcaaac tccactattc ctgttcatga 180  
 ctgtcagaa ctgttggaaa ctactgaaaac tggccgacct gatctcaaa atgtggccct 240  
 aggaaaaggta gatgccaccc tgttcagaga cagtaaccncc ttccctcgaga agggactacg 300  
 agggggccgt gcanctgtta ccaaggagac tnatgttgg tgggctcagg ctttaccanc 360  
 aaacacctca ncncnnaagg ctgaatttgc cgcctcaact caggctctcg gatggggtaa 420  
 gggatattaa cgtaaacact gacagcaggta acgccttgc tactgtcat gtacgtggag 480  
 ccatctacca ggagcgtggg ctactcaatc ggcagggtggc tgnatccac tggaaangga 540  
 catcaaaagg aaaacnnggc tggccgtt ggttaaccana aancgtatcn ncagctcnaa 600  
 gatgctgtgt tgactttcac tcncncctct taaacttgc gcccacantc tccttccca 660  
 accagatctg cctgacaatc cccataactca aaaaaaaaaan aancactggcc cgcgacccna 720  
 accaataaaa acggggangg tngtganc nncctgaccc aaaaataatg gatccccccgg 780  
 gctgcaggaa ttcaattcan ccttacatcna acccccaacn nggngggggg ggcngtncc 840  
 catnnccct ntattnattc tttnnccccc ccccccgcnt ccttttnaa ctcgtgaaag 900  
 gggaaacctg ncttaccaan ttatcnctg gacntcccc ttccncggtn gnttanaaaa 960  
 aaaagccnc antcccncc naaatttgc cngaaaggna aggaatttaa cctttatttt 1020  
 ttnttcctt anttgcnnn cccctttta cccaggcgaa cngccatcnt ttaanaaaaaa 1080  
 aaanagaang tttattttc ctngaaacca tcccaatana aancacccgc ngggaaacgg 1140  
 ggnngnaggc cnctcacc 1177

<210> 9  
 <211> 1146  
 <212> DNA  
 <213> Homo sapien  
  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (1146)  
 <223> n = A, T, C or G

<400> 9

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 gaaaagggtc aaaaggagct gttgacagtc atcccaggtg ggccaatgtg tccagagtac 120  
 agactccatc agtggaggta aagcctgggg ctttcagag aagggaggat tatgggtttt 180  
 ccaattatac aagtcaagaag tagaaagaag ggacataaac caggaagggt gtggagcact 240

catcaccagg agggacttgt gcctctctca gtggtagtag agggctact tcctcccacc 300  
 acggttgcaa ccaagaggca atgggtgatg agcctacagg ggacatancc gaggagacat 360  
 gggatgaccc taagggagta ggctggttt aaggcggtgg gactgggtga gggaaactct 420  
 cctcttcttc agagagaagc agtacagggc gagctgaacc ggctgaaggt cgaggcgaaa 480  
 acacggtctg gtcaggaag accttgaag taaaattatg aatggtgcataaatggagcc 540  
 atggaaagggg tgctcctgac caaactcagc cattgatcaa tgtagggaa actgatcagg 600  
 gaagccggga attcattaa caacccgcca cacagcttga acattgttag gttcagtgcac 660  
 ccttcaaggg gccactccac tccaaactttg gccattctac tttgcnaaat ttccaaaact 720  
 tcctttta agggcgaatc cttttttttaaacttccctttaaaaacnaa aaaaatctg cncctattct 780  
 ggaaaaggcc cancccttac caggctggaa gaaattttnc ctttttttt ttttgaagg 840  
 cttttnttaa attgaacctn aatttcccccc cccaaaaaaaaa aaccnccng gggggcggat 900  
 ttccaaaac naattccctt accaaaaaaaaa aaaaaccnc ctttttttccc ttccnccctn 960  
 ttcttttaat tagggagaga tnaagcccc caatttccng gnctngatnn gtttcccccc 1020  
 ccccccattt ccnaaacttt ttcccanca ggaancncc ctttttttng gtcngattna 1080  
 ncaaccttcc aaaccatttt tccnnaaaaa nttgntngg ngggaaaaan actnntttt 1140  
 atagan 1146

<210> 10  
 <211> 545  
 <212> DNA  
 <213> Homo sapien

<400> 10

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 tgcagcccg gggatccact agttctagag tcaggaagaa ccaccaacct tcctgatttt 120  
 tattggctct gagttcttag gccagtttc ttcttctgtt gagttatgcgg gattgtcagg 180  
 cagatctggc tggaaagg agactgtggg cagcaagttt agaggcgtga ctgaaagtca 240  
 cactgcacatct tgagctgtg aatcagottt ctgttacca cgggcaacag cctgttttc 300  
 ctttgtatgt ctttacagt ggattacagc caccgtgtga ggtgagtagc ccacgctcct 360  
 ggttagatggc tccacgtaca tgcacagtag caaagggtta cctgtgtca gtgttaacgt 420  
 taatatcctt accccatcg agagccttag tgagggcgat caattcagcc cttttgtgct 480  
 gaggtgtttt ctggtaagc cctgaaccca caacacatct gtctccatgg taacagctgc 540  
 accgg 545

<210> 11  
 <211> 196  
 <212> DNA  
 <213> Homo sapien

<400> 11

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 ggggggatcg cttgagccca agatttcaag actagtctgg gtaacatagt gagaccctat 120  
 ctctacgaaa aaataaaaaa atgagcctgg tgttagtggca cacaccagct gaggagggag 180  
 aatcgagcct aggaga 196

<210> 12  
 <211> 388  
 <212> DNA  
 <213> Homo sapien

<220>

SubAI

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1  
*Sub A1*

```

<221> misc_feature
<222> (1) ... (388)
<223> n = A, T, C or G

<400> 12
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tgacaccaac ttacactgtg gnctccaata aactgcttct ttccttattcc ctctcttatta      120
aataaaaataa ggaaaacgat gtctgtgtat agccaaagtca gntatcctaa aaggagataac      180
taagtgcacat taaatatcat aatgtaaaac ctgggaacca ggttcccagc ctgggattaa      240
actgacagca agaagactga acagtactac tggaaaagc ccgaagnggc aatatgttca      300
ctctaccgtt gaaggatggc tgggagaatg aatgctctgt cccccagtcc caagctcact      360
tactataacct cctttatagc ttaggaga      388

<210> 13
<211> 337
<212> DNA
<213> Homo sapien

<400> 13
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taccctgaaa aatatgaggg aaatataatga aacagggagg caatgttcaag ataattgtatc      120
acaagatatg atttctacat cagatgttct ttccttccct gtttatttcc tttttatttc      180
ggttgtgggg tcgaatgtaa tagctttgtt tcaagagaga gtttggcag tttctgttagc      240
ttctgacact gctcatgtct ccaggcatctt atttgactt taggaggtgt cgtggagac      300
tgagaggctt atttttcca tatttggca actacta      337

<210> 14
<211> 571
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1) ... (571)
<223> n = A, T, C or G

<400> 14
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aaaatcatat ttcatatattt acgctcgagg gtttttaccg gttcctttt acactcctta      180
aaacagttt taagtgcgtt ggaacaagat atttttctt tcttggcagc ttttaacatt      240
atagcaaatt tgggtctgg ggactgctgg tcactgttcc tcacagttgc aaatcaaggc      300
atttgcacc aagaaaaaaa aatttttttg ttttatttga aactggaccc gataaacggc      360
gtttggagcg gctgctgtat atagtttaa atggttatttgcacccctt aagttgcact      420
tatgtggggg ggggnntttg natagaaaagt nttaatcacc aagttccacag ggactttnt      480
cttttggnnna ctgagctaaa aagggtctgtt tttcgggtgg gggcagatga aggctcacag      540
gaggcccttcc tcttagaggg gggactnct a      571

<210> 15
<211> 548
<212> DNA

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<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(548)
<223> n = A,T,C or G

<400> 15
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taaaagtatt tccaaaaaagc ataaaaccaa agtatcatac caaaccaaat tcatactgct
tccccccaccc gcactgaaac ttcacccctt aactgtctac ctaacccaaat tctaccccttc
aagtctttgg tgcgtgctca ctactcttt tttttttttt tttntttgg agatggagtc
tggctgtgca gcccagggggt ggagtacaat ggcacaaccc cagctcactg naacctccgc
ctcccaagggtt catgagatcc tcctgnntca gccttcccaag tagctggac tacaggtgtg
catcaccatg cctggntaat ctttttngt tttnnggtag agatgggggt tttacatgtt
ggccaggngt gntcgaact octgacctca agtgcattcc acacccagg ctcccaaagt
gcttaggatta cagacatgag ccaactgngcc cagnccctggt gcatgctcac ttctcttaggc
aactacta

<210> 16
<211> 638
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(638)
<223> n = A,T,C or G

<400> 16
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gcaatccgag cctatcctca agatgagttt ttagaaagaa ttgatttagc gatagaccaa
gctggtaagc actctgacta cacgaaattt ttcagatgtg atggattttt gacagttgt
ctttggaaaga gattattaag tgattttttt aaaggaaatc cattaattcc agaatatctt
ggtttagctc aagatgatata agaaatagaa cagaaagaga ctacaaatga agatgtatca
ccaactgata ttgaagagcc tatagttagaa aatgaattttt ctgcattttt tagccttaca
catagcgatt ttccctgatga atcttattt cagccatoga catagcatta cctgatggc
aaccttacga ataatacgaaa ctgggtgcgg ggctattgtt gaattcatcc ncagtaaaatt
tggatatnac aaaatataac tcgatttgcattt ttggatgtt gaatactaaa tctggcaaaa
gtaactttgg agctactagt aacctctt tttgagatgc aaaatttctt tttagggttt
cttattctct actttacgga tattggagca taacggga

<210> 17
<211> 286
<212> DNA
<213> Homo sapien

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Sakha

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 ccctgcctca anaganaang aataggaagt tcagaaatcn tggntgtgn gcccagcaat 240  
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 cacaaatgcc aaattaagag catggctatt ttcggggct gacaggtcaa aagggtgtta 180  
 aatccgataa gcctcctgga ggtgctctaa aaacactctt ggtgactcat catgccccctg 240  
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 ctaacacct agatattcg acaaaagttt actacaggga tgaagcttc acggaaaacc 180  
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Sect-A1

DNA sequence

SubjAI

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ccaggccatg	gaagcacago	tcttataatca	atgtgacctg	gatgttggaga	catggaatcc	480
nangaaatcn	tttaanact	tccacggtn	aatgactgcc	ctattanatt	cngaacttan	540
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cnctgaagga	attctaaaaa	cccttgcga	ggaaatgccc	ccttaccatg	acaantggtc	720
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attaccaacc	ccattttaca	gatgcatcaa	taatgacaga	gaagtgaagt	gacttgcgca	120
cacaaccagt	aaatggcag	agtcagattt	gaatccatgg	agtctggtct	gcactttcaa	180
tcaccgaata	cccttctaa	gaaacgtgtg	ctgaatgagt	gcatggataa	atcagtgtct	240



Sub A1

<210> 36	
<211> 583	
<212> DNA	
<213> Homo sapien	
<400> 36	
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agttagatc catctaaaa aaaaaaaaaa gaaaaagaaa agaaaaggaa aaaacgtata	180
aaccaggcca aaacaaaatg atcattctt taataagcaa gactaattta atgtgtttat	240
ttaatcaaag cagttgaatc ttctgagta ttgtgaaaa tacccatgt a gttaaatttag	300
ggttcttact tgggtgaacg tttgatgttc acaggttata aaatggtaa caaggaaaaat	360
gatgcataaa gaatctata aactactaaa aataaataaaa atataaatgg ataggtgcta	420
tggatggagt ttttggtaa tttaaaatct tgaagtcatt ttggatgtc attgggtgtc	480
tggtaatttc cattaggaaa aggttatgat atggggaaac tggttctgga aattgcggaa	540
tgtttctcat ctgtaaaaatg ctgtatctc agggcaacta cta	583
<210> 37	
<211> 716	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(716)	
<223> n = A,T,C or G	
<400> 37	
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gctttcttgt tcttaatcc agacccttat atatgtttat gttcacaggc agggcaatgt	120
ttagtgaaaa caattctaaa ttttttattt tgcatttca tgctaatcc cgtcacactc	180
cagcaggcctt cctggggagaa taaggagaaa tacagctaaa gacattgtcc ctgcttactt	240
acagcctaat ggtatgctaa accacttcaa taaagtaaca gggaaaagtac taaccaggta	300
gaatggacca aaactgatat agaaaaatca gaggaagaga ggaacaaata ttactgtgat	360
ccttagaatgt acaaggcttt ttaattacat attttatgtt aggcctgcaaaaacaggtg	420
agtaatcaac attttgtccca ttttacat aaggaaaactg aagcttaaat tgaataattt	480
aatgcataaa tttttagttt agaccatgtt caggtcccta ttttataactt actagctgtt	540
tgaatatgag aaaataattt ttttatttc ttggcatcag ttttcatc tgcaaaaataa	600
agctaaagtt atttagctaa cagtcagcat agtgcctgtat acatagtagg tgctccaaac	660
atgattacnc tantatnng tattaaaaaa atccaatata ggontggata aaaccg	716
<210> 38	
<211> 688	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(688)	
<223> n = A,T,C or G	

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*Sukai*

<210> 41  
 <211> 423  
 <212> DNA  
 <213> Homo sapien

<400> 41

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 ttatTTAGAA agaacacata cgagagata agggcaaagg actaagacca gaggaacact 180  
 aatatTTAGT gatcaactcc attcttggta aaaatagtaa ctttaagtt agcttcaagg 240  
 aagatTTTG gccatgatta gttgtcaaaa gttagttctc ttgggttat attactaatt 300  
 ttgtttaag atccttggta gtcatttaat aaagtcatgt tatatcaaac gctctaaaac 360  
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 cta 423

<210> 42  
 <211> 527  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
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 <223> n = A,T,C or G

<400> 42

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 gtttatgttt taagctaagt gttattacaa aagagccaaa aaggtttaa aataaaaac 180  
 gtttgtaaag ttacagtacc cttatgttaa tttataattt aagaaagaaa aactttttt 240  
 tataaatgtt gtgtgccta agcatacagt atttataag tctggcagtg ttcaataatg 300  
 tcctaggcct tcacattcac tcactgactc acccagagca acttccagtc ctgtaaagctc 360  
 cattcgtgg aagtgcctta tacaggtgca ccatttattt tacagtattt ttactgtacc 420  
 ttctctatgt ttccatatgt ttcgatatac aaataccact ggttactatn gccnacagg 480  
 taattccagt aacacggcct gtatacgtct ggtancctta gngaga 527

<210> 43  
 <211> 331  
 <212> DNA  
 <213> Homo sapien

<400> 43

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 ctctagttgg aaaatttagag aaatcatgtt ttatTTTG tgTTATTCA gatcacaaat 180  
 tcaaacactt gtaaacatta agttctgtt caatcccctg ggaagaggat tcattctgt 240  
 atttacggtt caaaagaagt tgtaatattt tgcttggAAC acagagaacc agttattaaac 300  
 ttcctactac tattatataa taaataataa c 331

<210> 44

<211> 592  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(592)  
 <223> n = A,T,C or G

<400> 44

ggcttagtag ttgcaggca aaatarcgtt gattctcctc aggagccacc cccaacaccc	60
ctgtttgctt cttagacctat acctagacta aagtcccagc agacccttag aggtgagggtt	120
cagagtgacc cttgaggaga tttgctacac tagaaaagaa ctgctttagt tttctaattt	180
atataagcag aaatctggag aagagtctata ggaatggata ttaagggtgt gagataatgg	240
cggaaaggaa atagagttgg atcaggctgg acttattgtat ttgaacccac taagtagaga	300
ttctgctttt gatgttgcgtat ctcaggagtt taaaaaagggt ttaatgggtt ctaatagttt	360
atttgcttgg ttagctgaaa tatggataaa agatggccca ctgtgagcaa gctggaaatg	420
cctgatctct ctcagttaa ttttagagaa gggatccaaa agtttaggaa ganttggatg	480
ctggraktgg attggtaact ttgrgaccta cccwtcccag ctgggagggtt ccagaagata	540
cacccttgac caacgctttt cggaaatggat ttgtgatggc ggcaactact aa	592

<210> 45  
 <211> 567  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(567)  
 <223> n = A,T,C or G

<400> 45

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agattcaacg gatttgagtt ttaccagcaa agcgaaccaa ggcggccca gagaattatg	120
ggttggttgg ctttggaaaag atggaaatcc ttttggctta gtcagaaaag ctttcttgca	180
gaacagttgg ttctcgcccg aacgctcatc aagatggccca ttggaaaggc tagcgtgtat	240
ttgggagagc ctgatagcgt gtcttctgtat gatgtttgtt cttggacagt gacaaaagat	300
atgcaaagca agtccgaact agacgtcaag cttcgtgagc aaattattgtt agactcctac	360
ttatactgtt aggaatgtata gccaagggtt gggactttaa gactaagggtt gtttgtactt	420
gcgcgcgtatga tcccaggccg aaagamctga tcgttagttt tatacggca actactaagc	480
cgaattcccg cacactggcg gccgttacta attggatccg anctcgtac cagcttgcgtat	540
catascttga gttwtctata ntgtcnc	567

<210> 46  
 <211> 908  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(908)

<223> n = A, T, C or G

<400> 46

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gcggcagggg cgcaagcaat taatgtgagt aggccattca ttagcacccg ggcttaacat 180  
ttaagcttcg ggttggtag tggtggaaat tggagcgga taacaatttc acacaggaaa 240  
cagctatgac catgattacg ccaagcttatt taggtgacat tatagaataa ctcaagttat 300  
gcatcaagct tggtaccgag ttcggatcca ctagtaacgg cggccagtgt gtgaaattcg 360  
gcttagtagt tgccgaccat ggagtgtac ctaggctaga atacctgagy tcctccctag 420  
cctcaactcac attaaattgt atctttctta cattagatgt cctcagcgcc ttatttctgc 480  
tggacwatcg ataaaattaat cctgatagga tgatagcagc agattaatta ctgagagat 540  
gttaatgtgt catccctcct atataacgtt tttgcatttt aatggagcaa ttctggagat 600  
aatccctgaa ggc当地ggaa tgaatcttga gggtgagaaa gccagaatca gtgtccagct 660  
gcagttgtgg gagaaggtga tattatgtat gtctcagaag tgacaccata tggcaacta 720  
ctaagcccgaa attccagcac actggccggc gttactaatg gatccgagct cggtagccaag 780  
cttgcattgtat agcttgcata tctatgtgt cactaaatacg cctggcgat tcatggat 840  
agctgtttcc tggatggaaat tggtatccgc tcccaattcc cccaccata cgagccggaa 900  
cataaagt 908

<210> 47

<211> 480

<212> DNA

<213> Homo sapien

<220>

<221> misc feature

<222> (1) . . . (480)

<223> n = A, T, C or G

<400> 47

tgccaacaag gaaagttta aattccccct tgaggattct tggtgatcat caaattcagt	60
ggtttttaag gttgtttct gtc当地ataac tctaacttta agccaaacag tatatggaag	120
cacagataka atattacaca gataaaaagag gagttgatct aaagtaraga tagttgggg	180
ctttaatttc tggaacctag gtctccccat ctcttctgt gctgaggaac ttcttggaaag	240
cggggattct aaagttcttt ggaagacagt ttgaaaacca ccatgttgtt ctcagtagct	300
ttatTTTTaa aaagtaggtg aacattttga gagagaaaaag ggcttggttg agatgaagt	360
cccccccccc cttttttttt ttttagctga aatagatacc ctatgttnaa rgaarggatt	420
attatTTTacc atGCCAYtar scacatgctc tttgatgggc nyctccstac cctccttaag	480

<210> 48

<211> 591

<212> DNA

<213> Homo sapien

<400> 48

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tggccaaacat tacgaacttc caactcaacc gttcttggac gttcaagcgg gagtaccggc 120
gaggatggtg gcgtgaattc tggcctttct ttgccgtggg atcggttagcc gccatcatcg 180
gtatgtttat caagatcttc ttactaaacc cgacacctcc gatttacctg cccgagccgt 240
ggtttaacga ggggagggggg atccagtac acgcgactgt gtccpagatc ttgcgcacatcg 300

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1  
 tcgtgacaat gcctatcaac ttcgtcgta ataagttgtg gacctccga acggtaagc 360  
 actccgaaaa cgtccggtg 420  
 ctgctgtcg gtgactccca aaatctgat aacaacaagg 480  
 taaccgaatc gcgctaagga accccggcat ctcgggtact ctgcataatgc gtacccctta 540  
 agccgaattc cagcacactg gccggccgtta ctaattggat ccgaactccg taaccaagcc 591  
 tgatgcgtaa cttgagttat tctatagtgt ccctaaaata acctggcg 49

<210> 49  
 <211> 454  
 <212> DNA  
 <213> Homo sapien

<400> 49  
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 aagaaagctg ctgtggggaa aggagggata aatactgaag ggatttacta aacaatgtc 180  
 catcacagag ttttctttt tttttttt agacagagtc ttgctctgtc acccaggctg 240  
 gaatgaagwg gtatgatctc agttgaatgc aacctctacc tcctaggttc aagcgattct 300  
 catgcctcag cctcctgagc agctggact ataggcgcat gctaccatgc caggctaatt 360  
 tttatatttt tattagagac ggggttttgc catgttggcc aggcaggctc cgaactcctg 420  
 ggcctcagat gatctgcccc accgtacccct ctta 454

<210> 50  
 <211> 463  
 <212> DNA  
 <213> Homo sapien

<400> 50  
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 gctgcataaca gctttttttt tttaataaaa tgggccaaac aatgtttt gcattcacac 120  
 caattgctgg ttttggaaatc gtactcttca aaggtattt tgcatgatcaa tccaatagt 180  
 atgccccgta ggttttgg 240  
 actgcccacg ttctcacct tctcatgtat gagccattga 300  
 gagactgttt ggacatgcct gtgttcatgt agccgtgatg tccggggcc gtgtacatca 360  
 tggttaccgtg ggggtggggtc tgcattggct gctgggcata tggctgggtc cccatcatgc 420  
 ccatctgcatt ctgcataaggg tattggggcg tttgatccat atagccatga ttgctgtgg 463  
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<210> 51  
 <211> 399  
 <212> DNA  
 <213> Homo sapien

<400> 51  
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 cataattatt aagagtatgg acttacttag aaatgagctt tcatatttaag aatttcatct 240  
 ttgaccttct ctattagtct gaggcgtatg acactatacg tattttattt aactaaccta 300  
 ccttggctta ttactttta aaaggctata tacatgaatg tggatgtca actgtaaagc 360  
 cccacagtat ttaattatcatgatgtct ttgagggtt 399

<210> 52

<211> 392  
 <212> DNA  
 <213> Homo sapien

<400> 52  
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 gcaataatta tctggggaaaaaaa aaaaatgggtg aaagattaaa cttgcatttc tctcagaatc 120  
 ttggaggata ttggataataat tcaaaaagcgg aatcagttgt atcagccgaa gaaactcact 180  
 tagctagaac gttggaccca tggatctaag tccctggccct tccactaacc agctgattgg 240  
 ttttggtaa accttctaca cgcttgggct tggtcgcctc atttgtaaaa gtaaaggctg 300  
 aataatggaaatgaaacc gtgtctttt ggtctctttt ccatccattt ctctgatttt 360  
 acaaaagggc ctgtatttttccctt ctggtgaggt tg 392

<210> 53  
 <211> 179  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(179)  
 <223> n = A,T,C or G

<400> 53  
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 cttagttcagc atacngagac acntctgact ccgattcttag aggactgagt gacctgcan 179

<210> 54  
 <211> 112  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(112)  
 <223> n = A,T,C or G

<400> 54  
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 tgcatttttcacacanacaaa attcaaatgat ntggaaagaaa ttggganagt at 112

<210> 55  
 <211> 225  
 <212> DNA  
 <213> Homo sapien

<400> 55  
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 aaaggaggtat atccaaatgc caataaacat ataaaaaggaa attcagttc atcatcatca 120  
 gaagwatgca aattaaaaacc ataatgagaa accactatgt cccactagaa tagataaaat 180



agccatttac caccctact aaattctagt tcaaactcca acttcttcca taaaacatct 60  
 aaccactgac accagttggc aatagcttct tccttcttta acctctttaga gtatttatgg 120  
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<210> 61  
 <211> 134  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(134)  
 <223> n = A,T,C or G

<400> 61

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 canaatcatc nggc 134

<210> 62  
 <211> 145  
 <212> DNA  
 <213> Homo sapien

<400> 62

agagggtaca tatgcaacag tatataaagg aagaagtgc ctgagaggaa cttcatcaag 60  
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 ccaagctct tactggtacc ctctt 145

<210> 63  
 <211> 297  
 <212> DNA  
 <213> Homo sapien

<400> 63

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 ccacagtctcg cgccatggtg gtccggtaaa gcatttgc aggcaggcct cgtttcagg 180  
 agacgggac acatcagct tctggaaaaa ctttgcgtc tctggagctt tgttttccc 240  
 agcataatca tacactgtgg aatcgaggat cagtttagtt ggtaaggcaa gaggagc 297

<210> 64  
 <211> 300  
 <212> DNA  
 <213> Homo sapien

<400> 64

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 atgttttac catttctgt cttgcctgtt tttctgtgtt tttgtggtc tcttcattct 180  
 catttttag gccttacat gtttagaata tatttcttt aatgataactt caccttqqt 240

1

Subj

atctttgtg agactctact catagtgtga taagcactgg gttggtaagg caagaggagc 300

<210> 65  
 <211> 203  
 <212> DNA  
 <213> Homo sapien

<400> 65

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<210> 66  
 <211> 344  
 <212> DNA  
 <213> Homo sapien

<400> 66

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 catggagaag gcagagttgt gtgccttc tcatggcctc gtcaaggcat catggactgc 180  
 cacacacaaa atgccgttt tattaacgcg atgaaattga aggagagaac acaattcact 240  
 gatgtggctc gtaaccatgg atatggtcac atacagaggt gtgattatgt aaaggtaat 300  
 tccacccacc tcatgtggaa actagcctca atgcagggtt ccca 344

<210> 67  
 <211> 157  
 <212> DNA  
 <213> Homo sapien

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Sarkar

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Sakai

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*SuTSAI*

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<213> Homo sapien

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gggaagttca agtccacgcg agggtgggtg ggttagacagt ggcactcaga aatgtcagct	120
ggacccctgt ccccgcatag gcaggacacg aaggctgtgg ctctccaggg ccagctgaag	180
aacaggacac tgtctccgct gccacaaaagc gtcaagagact cccatcttg aagcacggcc	240
ttcttggctc tcctgcactt ccctgttctg ttagagacct gttatagac aaggcttctc	300
cacagtgttg cagcgtaa	318
<210> 151	
<211> 323	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(323)	
<223> n = A,T,C or G	
<400> 151tnacgcngcn acnntgtaga gangnaagg cttccccac attncccctt	
catnanagaa 60	
ttattcnacc aagnntgacc natgccnntt atgacttada tgcnnactnc ntaatctgtn	120
tcnngccta aaagcnntc cactacatgc ntcancactg tntgtgnac ntcatnaact	180
gtcngnaata gggcncata actacagaaa tgcanttcact actgctcca ntgcctcng	240
cgtgtggcct tncctactct tcttnttattc caagtagcat ctctggantg cttccccact	300
ctccacattt ttgcagcnat aat	323
<210> 152	
<211> 311	
<212> DNA	
<213> Homo sapien	
<400> 152	
tcaagattcc ataggctgac cagtccaaagg agagttggaa tcatgaagga gagtctatct	60
ggagagagct gtatgtttga gggttgcaaa gacttagat ggagttgggtg ggtgtggta	120
gtctctaagg ttgatgttgc tcataaattt catgcccgtga atgccttgct tgcctcaccc	180
tggtccaagg cttagtgaac acctaaaagt ctctgttcc ttgtctcca aacttctcct	240
gaggatttcc tcagattgtc tacattcaga tcgaagccag ttggcaaaca agatgcagtc	300
cagagggtca g	311

SutAI

<210> 153	
<211> 332	
<212> DNA	
<213> Homo sapien	
<400> 153	
caagattcca taggtgtgacc aggaggctat tcaagatctc tggcagttga ggaagtctct	60
ttaagaaaaat agtttaaaca atttgttaaa atttttctgt cttaacttcat ttctgttagca	120
gttgtatctt ggctgttctt tttataatgc agagtggaa ctttccttac catgtttgat	180
aatatgttgc caggctccat tgccaataat gtgttgcctt aatgcctgt ttagtttttta	240
aagacggAAC tccacccttt gcttggcttt aagtatgtat ggaatgttat gataggacat	300
agttagtagcg gtggtcagcc tatggaaatct tg	332
<210> 154	
<211> 345	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(345)	
<223> n = A,T,C or G	
<400> 154	
tcaagattcc ataggctgac ctggacagag atctcctggg tctggcccag gacagcaggc	60
tcaagctcag tggagaaggt ttccatgacc cttagattcc cccaaacctt ggattgggtg	120
acattgcac tcctcagaga gggaggagat gtangtctgg gcttccacag ggacctggta	180
ttttaggatc agggtaccgc tggcctgagg cttagatcat tcanagcctg ggggtggaat	240
ggctggcagc ctgtggcccc attgaaatag gctctggggc actccctctg ttccctanttg	300
aacttgggta aggaacagga atgtggtc an cctatggaaat cttga	345
<210> 155	
<211> 295	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(295)	
<223> n = A,T,C or G	
<400> 155	
gacgcttggc cacttgacac attaaacagt tttgcataat cactancatg tatttcttagt	60
ttgctgtctg ctgtgtatgcc ctggccctgat tctctggcgt taatgtatggc aagcataatc	120
aaacgcgttt ctgttaattc caagttataa ctggcattga taaaaggcatt atcttcaca	180
actaaactgt tcttcataana acagccata ttattatcaa attaagagac aatgtattcc	240
aatatccttt angccaata tatttnatgt cccttaatta agagctactg tccgt	295
<210> 156	
<211> 406	
<212> DNA	

Sust AI

<213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (406)  
 <223> n = A, T, C or G  
 <400> 156  
 gacgcttggc cacttgacac tgcatgtggaa aaaccagcat gagccgctgc ccccaaggaa 60  
 cctcgaagcc caggcagagg accagccatc ccagcctgca ggtaaagtgt gtcacctgtc 120  
 aggtgggctt ggggtgagtg ggtggggaa gtgtgtgtc aaagggggtg tnaatgtnta 180  
 tgcgtgtgag catgagtgtat ggctagtgatg actgcgtgtc agggagtgtg aacaagcgtg 240  
 cgggggtgtg tgcgtgtgatg cgtatgcata tgagaatatg tgcgtgtgaa tgagtgcatt 300  
 taaaaagtctg tgcgtgtgatg tgcgtgtcatg anggttaantt antgactgcg caggatgtgt 360  
 gatgtgtcatg ggaacactca ntgtgtgtgt caagtggccn ancgta 406

<210> 157  
 <211> 208  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (208)  
 <223> n = A, T, C or G  
 <400> 157  
 tgacgcttgg ccacttgaca cactaaaggg ttttactcat cacttttttc ttcctcggt 60  
 ggcattgtgat tgcattttt cacttggcac ttatgtttt ggcattgtact gtaanccana 120  
 tctgtatgtat acaccagttt gtaatttggaa taaatgtctc taatactatg tgctcacaat 180  
 anggtanggg tgaggagaag gggagaga 208

<210> 158  
 <211> 547  
 <212> DNA  
 <213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (547)  
 <223> n = A, T, C or G  
 <400> 158  
 cttcaacccctc cttcaacccctc cttcaacccctc ctggattcaa acaatcatcc cacccatcagac 60  
 tccttagtag ctgagactac agactcacgc cactacatct ggctaaattt ttgttagagat 120  
 agggtttcat catgttgcctc tggctggctt caaactcctg acctcaagca atgtgcccac 180  
 ctcagccctcc caaagtgtctg ggattacagg cataagccac catgcccagt ccatntttaa 240  
 tctttccatc cacattcttca ccacacttcc ttttatgttt agatacataa atgttacca 300  
 ttatgataca attgcccaca gtattaagac agtaacatgc tgcacaggtt tgcgtgttag 360  
 gaacagtagg caataccaca tagcttaggt gtgtgttaga ctataccatc tagtttgc 420  
 taagttacac tttatgtctgtt acataccatc ctaatgtgc atttctcaga 480

Sust A1

atgtatcctt gtcagtaagc tatgatgtac aggaaacact gccaaggac acagatattg	540
tacctgt	547
<210> 159	
<211> 203	
<212> DNA	
<213> Homo sapien	
<400> 159	
gctcctcttg ccttaccaac tcacccagta tgcagcaat tttatcrgct ttacctacga	60
aacaggctgt atccaaacac ttaacacact cactgaaaa gttcaggcaa caatgcctt	120
ctcatgggtc tctctgtcc agttctgaac ctttctctt tcctagaaca tgcatattarg	180
tcgatagaag ttcctcttag tgc	203
<210> 160	
<211> 402	
<212> DNA	
<213> Homo sapien	
<400> 160	
tgtaagtgcg gcagtgtgat ggggtggaca ggggtgttaag cagtaattgc aaactgtatt	60
taaacaataa taataatatt tagcatttat agagcacttt atatctcaa agtacttgca	120
aacattayct aattaaatac cctctctgtat tataatctgg atacaaatgc acttaaactc	180
aggacaggggt catgagaaaa gtagtcattt gaaagttggt gctagctatg cttaaaaac	240
ctatacaatg atgggraagt tagagttcag attctgttgg actgttttg tgcatattcag	300
ttcagcctga tggcagaatt agatcatatc tgcactcgat gactytgctt gataacttat	360
cactgaaatc tgagtgttga tcatacacact gctcgactta ca	402
<210> 161	
<211> 193	
<212> DNA	
<213> Homo sapien	
<400> 161	
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actgaccagg agaaaaacca accaataaaa acaggcccgg acataagaca aataataaaa	120
ttagcggaca aggacatgaa aacagctatt gtaagagcgg atatagttgt gtgtgtctgg	180
gctcaacatg cta	193
<210> 162	
<211> 147	
<212> DNA	
<213> Homo sapien	
<400> 162	
tgttgagccc agacactgac caggagaaaa accaaccaat aaaaacaggc ccggacataa	60
gacaataat aaaattagcg gacaaggaca tgaaaacagc tattgttaga gcgatatacg	120
tggtgtgtt ctggctcaa catgcta	147
<210> 163	
<211> 294	

<212> DNA  
<213> Homo sapien

<400> 163 60  
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tttaaaacca cagctaaagcc atgattattc aaaaggacta ttgtattggg tattttgatt  
tgggttctta tctccctcac attatcttca tttcttatcat tgacctctt tcccagagac  
tctcaaactt ttatgttata caaatcacat tctgtctcaa aaaatatctc acccacttct  
cttctgttcc tgctgtgttata tgtgtgtgtc ggctcaacat gctt 120  
60  
120  
180  
240  
294

<210> 164 180  
<211> 412 240  
<212> DNA 294  
<213> Homo sapien 360

<220>  
<221> misc\_feature 360  
<222> (1)...(412) 412  
<223> n = A, T, C or G 412

<400> 164 412  
cgggattggc tttgagctgc agatgtgc ctttgcggca cccggcggtgg aacagaaaagc  
cacctggctg caagtgcgc agagccgccc tgactacgtg ctgctgtggg gctggggcgt 60  
gatgaactcc accgcctcga aggaagccca ggccaccggta taccggcg acaagatgtt  
cggtgtgtgg tggccgggtg cggagccca tggtgtgtac gtggcgaaag ggcggcaagg  
ctacaacgcg ctggctctcga acggctacgg cacgcgttcc aaggtgtatcc angacatcct  
gaaacacgtg caccgacaagg gccaggccac gggggcccaaaa gacgaagtgg gtcgggtgt  
gtacaccgcg ggcgtgtatca tccagatgtt ggcgtgtatca tcaatcacta at 120  
180  
240  
300  
360  
412

<210> 165 360  
<211> 361 412  
<212> DNA 412  
<213> Homo sapien 412

<400> 165 412  
ttgacacccctt gtccagcatc tgcattgtat gagagcctca gatggctacc actaatggca  
gaaggcaaaag gagaacaggc attgtatggc aagaaaggaa gaaagagaga gggggagaaaag  
gtgcttaggtt ctttcaaca accagttttt gatggactg agagtaagag ctcaaggcca  
ggtgtgtgtga ctccaaaccag taatcccaac attttaggag gctgaggcag gcagatgtt  
tgaccccatg agtttgtac cagcctgaac aacatcatga gactccatctt ctacaataat  
tacaaaaatt aatcaggcat ttttttttttttgc ctttttttttttcc ctttttttttttcc  
a 360

<210> 166 360  
<211> 427 412  
<212> DNA 412  
<213> Homo sapien 412

<400> 166 412  
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tctgtatcctt acttagggga atatttttttt ttttttttttttcc attttgcattt ctttttttttttcc  
a 60  
120  
180  
240  
300  
360  
412

agtttctgg ttccaggtaa gaaaggagct caggccaaag taatgaacaa atccatcctc  
 acagacgtac agaataagag aacwtggacw tagccagcag aacmcaaktg aaamcagaac  
 mcttamctag gatracaamc mcrraratar ktgcycmcmc wtataataga aaccaaactt  
 gtatctaatt aaatattttat ccacygtcag ggcatttagtg gtttgataa atacgctttg  
 gctaggattc ctgaggttag aatggaaraa caattgcamc gagggttaggg gacatgagtc  
 aktctaa

<210> 167  
 <211> 500  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(500)  
 <223> n = A,T,C or G

<400> 167

aacgtcgcattctccggcc gccatggcccg cgggatagac tgactcatgt cccctaagat  
 agaggagaca cctgcttaggt gtaaggagaa gatggttagg tctacggagg ctccagggtg  
 ggagtagttc cctgctaagg gagggttagac tttcaacct gttccgtctc cggcctccac  
 tatagcagat gcgagcagga gtaggagaga gggaggtaag agtcagaagc ttatgttgg  
 tatgcgggaa aacgcrtat cggggcagc cragttatta ggggacantr tagwyartcw  
 agntagcatc caaagcnggg gagttntccc atatggttgg acctgcaggg gcggcattta  
 gtgatttagca tggagcccc agacacgcat agcaacaagg acctaaactc agatcctgtg  
 ctgattactt aacatgaatt attgtattta ttacaact ttgagttatg aggcatattta  
 ttaggtccat attacctgga

<210> 168  
 <211> 358  
 <212> DNA  
 <213> Homo sapien

<400> 168

ttcatcgctc ggtgactcaa gcctgtaatc ccagaacttt gggaggccga ggggagcaga  
 tcacctgagg ttggagttt gagaccagcc tggccaaacat ggtgacaacc cgtctctgt  
 aaaaatacaa aaatttagcca agcatggtgg catgcacttg taatcccagc tactcggag  
 gctgaggcag gagaatcaact tgaggccagg aggcagaggt tgcagtggg cagaggttga  
 gatcatgcca ctgcactcca gcctggcaa cagagtaaga ctccatctca aaaaaaaaaaaa  
 aaaaaaaaaaaa tgatcagagc cacaataca gaaaaccttg agtcaccgag cgatgaaa

<210> 169  
 <211> 1265  
 <212> DNA  
 <213> Homo sapien

<400> 169

ttctgtccac accaatctta gagctctgaa agaatttgtc tttaaatatc tttaatagt  
 aacatgtatt ttatggacca aattgacatt ttcgactatt tttccaaa aaaagtcagg  
 gaaatttcag cacactgagt tgggaatttc ttatcccaga agwccggcagc agcaatttca  
 tatttattta agattgattc catactccgt ttcaaggag aatccctgca qtctccctaa

Sub A-1

卷之三

aggtagaaca aatactttct atttttttt caccattgtg ggattggact ttaagaggtg 300  
 actctaaaaa aacagagaac aaatatgtct cagttgtatt aagcacggac ccatattatc 360  
 atattcacct aaaaaaatga ttccctgtgc acctttggc aacttctctt ttcaatgtag 420  
 gaaaaaactt agtcaccctg aaaacccaca aaataaataa aactttaga tggggcaga 480  
 argtttgggg gtggacattt tatgtgttta aattaaaccc tgtatcactg agaagctgtt 540  
 gtatgggtca gagaaaatga atgcttagaa gctgttcaca tcttcaagag cagaagcaaa 600  
 ccacatgtct cagctatatt attatttatt ttatgtcat aaagtgaatc atttcttctg 660  
 tattaatttc caaagggtt taccctctat ttaaatgctt tgaaaaacag tgatttgaca 720  
 atgggtttagt attttctt aaaaaaaa tataattatg aaagccaaga taatctgaag 780  
 cctgttttat tttaaaactt ttatgttct gtgttgatg ttgtttgtt gttgtttct 840  
 attttggggg tttttactt tgtttttgtt ttgtttgtt ttgtgttdg catactacat 900  
 gcagtttott taaccaatgt ctgtttggct aatgtatattaa aagttgtttaa ttatatgag 960  
 tgcatttcaa ctatgtcaat ggtttottaa tatttattgt gtagaagtac tggtaatttt 1020  
 ttatattaca atatgtttaa agagataaca gtttgatatg ttatgttgc ttatagcag 1080  
 aagttatata ttctatggc attccagggg atatgttgc gtttgcgagg catgcagtca 1140  
 atatgttgc cagttagtgg acagttatgtt gcaacgcctg atagcttctt tggcctttag 1200  
 ttaaataaaaa agacctgttt gggatgtttaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1260  
 aaaaaa 1265

<210> 170  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<400> 170

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 tctgtgatc tgatccttag ctagggcg ctgttcgtt aatggactt ctctgtactc 120  
 taattgtatcc agagaacatg ctggctacaa ctaataaaac cggaaaaaagt gaatttctaa 180  
 atttttcttca caaccattgt atgcatgtt tcacagcacc acttttgcattt aatacttcag 240  
 aagacaaatg tgaaaaggat aatatgttgc gatcaaacaa aaacaacaca atttgcggc 300  
 ataattatca aacagcacag ctacttgct taattttaga gttactcaca ttgtgtgtgg 360  
 aacatcacac tgctcgactt aca 383

<210> 171  
 <211> 383  
 <212> DNA  
 <213> Homo sapien

<400> 171

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 ttagctcaac agggtaagg catgtttaaaa atgtggactt ctgaggaatt ttcttttaaa 120  
 aagaacataaa tgaagtaaca tttaattac tcaaggacta cttttgggtt aatttataaa 180  
 tcttagatacc tctactttt ttgtttgtt ttcgacagtt cacaagagacc ttctgttcaatt 240  
 tacagggtaa aatcggttgaat gtagtggagg tggaaactgaa atttaaaattt atttgcgtt 300  
 tactataggg aaagaggctg agcttagaat cttttgggtt ttcatgttgc ttgtgttctt 360  
 atcatcacac tgctcgactt aca 383

<210> 172  
 <211> 699  
 <212> DNA  
 <213> Homo sapien

Sufai

Sub A!

<220>  
 <221> misc\_feature  
 <222> (1) ... (699)  
 <223> n = A, T, C or G

&lt;400&gt; 172

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 ggtctgcatt ctggcgccgg ctctggccca ggccctctgg aaagttctc agatgggca 180  
 gcactcgatgg tgctgagcca ggcactaaat ggactgctca tgtctgctgt catggagcat 240  
 ggcagcagca tcacacgctt ctgttggtg tcctgctcgc tggtggtcaa cgccgtgctc 300  
 tcagcagttc tgctacggct gcaagtcaca gccgccttct tcctggccac attgctcatt 360  
 ggcctggcca tgcgcctgta ctatggcagc cgctagttcc tgacaacttc caccctgatt 420  
 cccgaccctg tagattgggc gccaccacca gatccccctc ccaggccttc ctccctctcc 480  
 catcagcggc cctgtaacaa gtgccttgta agaaaagctg gagaagttag ggcagccagg 540  
 ttattctctg gaggttggtg gatgaagggg taccctagg agatgtgaag tgtgggttt 600  
 gttaaggaaa tgcttaccat cccccccccca accaaagtt nttccagact aaagaattaa 660  
 ggttaacatca ataccttaggc ctgaggaggt atcaccctga 699

&lt;210&gt; 173

&lt;211&gt; 701

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 173

tcgggtgatg cctcctcagg ccagatcaaa cttgggggtg aaaaatgtgc aaagaaatca 60  
 atgtcggaga aagaattttg caaaagaaaa atgcctaatac agtactaatt taataggta 120  
 cattagcattt ggaagaagaa atgttgatatt tttatgtcag ctatttata atcaccagag 180  
 tgcttagctt catgtaagcc atctcgattt cattagaaat aagaacaatt ttattcgctg 240  
 gaaagaactt ttcaattttt agcatctta ttgctcaggat ttttaaattt tgataaaagaa 300  
 agctccactt ttggcaggag tagggggcag ggagagagga ggctccatcc acaaggacag 360  
 agacaccagg gccagtaggg tagctgggtt ctgatcattt cacaacggac tgacttatgc 420  
 catgagaaga aacaacctcc aaatctcattt tgcttaatac aacacaagct catttcttgc 480  
 tcacgttaca tgtcttatgt agatcaacag caggtgactc agggacccag gctccatctc 540  
 catatgatctt tccatagtca ccaggacacg ggctctgaaa gtgtcccttca tgcagggaca 600  
 catgcctt ctttcattt ggcagagcaaa gtcacttatg gccagaagtc acactgcagg 660  
 gcagtgccat cctgctgtat gcctgaggag gcatcaccctga 701

&lt;210&gt; 174

&lt;211&gt; 700

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1) ... (700)

&lt;223&gt; n = A, T, C or G

&lt;400&gt; 174

tcgggtgatg cctcctcang cccctaaatc agatccagg gtcagagcca caggagacag

60

Sub A1

ggaaagacat	agatttaac	cggccccctt	caggagattc	tgaggctcag	ttcactttgt	120
tgcagttga	acagaggcag	caaggctagt	ggttagggc	acggctctcta	aagctgcact	180
gcctggatct	gcctccca	gc	tctgccagga	accagctgcg	tggcctttag	240
gcagaaagcc	ccctgtggac	cc	cgtctgtaa	atgaggacag	gactcttagga	300
accctttccc	ttgtttggc	ctcacttca	caggctccca	tcttgaactc	tatctactct	360
tttcctgaaa	ccttgtaaa	gaaaaaaagt	ctagcctggg	caacatggca	aaaccctgtc	420
tctacaaaaa	atacaaaaat	tagttgggt	tggtggcatg	tgcctgttagt	cccagccact	480
tgggaggtgc	tgaggtggga	ggatcactg	agcccccggag	gtggaggttg	cagtgagcca	540
agatcatgcc	actgcactcc	agcctgagta	atagagtaag	actctgtctc	aaaaacaaca	600
acaacaacag	tgagtgtgcc	tctgttccg	ggttggatgg	ggcaccacat	ttatgcatct	660
ctcagatttgc	gacgctgcag	cctgaggagg	catcaccgc			700
<210> 175						
<211> 484						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(484)						
<223> n = A,T,C or G						
<400> 175						
tatagggcga	attggggcccg	agttgcattgn	tccggccgc	catggccgcg	ggattcgggt	60
gatgcctct	caggcttgc	tgccacaagc	tactctctg	agtcagaaa	gtgccccttg	120
ataggggaaa	atgtcctact	gcactgcgaa	tttctcgtt	ccattttacc	tcccagtcc	180
ccttctaaac	cagttataaa	attcatttca	caagtattt	ctgattacct	gtttgtgcca	240
gggactattc	tcaggctgaa	gaaggtggga	ggggagggycg	gaacctgagg	agccacctga	300
gccagcttta	tatttcaacc	atggctggcc	catctgagag	catctcccc	ctctcgccaa	360
cctatcgcccc	catagcccag	ggatgcccc	aggcggccca	ggttagatgc	gtccctttgg	420
cttgcagtgc	atgacataca	ccttagctgc	ttagctggtg	ctggcctgag	gaggcatcac	480
ccga						484
<210> 176						
<211> 432						
<212> DNA						
<213> Homo sapien						
<400> 176						
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gacaaatgcc	aggtagcgga	attggta	gtccaggagt	tatccaggat	agattttcac	180
ccaccatggg	acgtcatacg	tcaa	tcttcaatgg	ccatggggga	cacatcatgc	240
ctccccacaca	atcgcagttt	ggagagatgg	gaggcaagtt	tatgaaaagc	cagggctaa	300
gccagctcta	ccataaccag	agtcagg	tcttataccca	gctgcaagga	cagtgcagg	360
atatgccacc	tcgggttct	aagaaaggac	agcttaatgc	agatgagatt	agcctgagga	420
ggcatcaccc	ga					432
<210> 177						
<211> 788						
<212> DNA						

*SatA*

<213> Homo sapien

<400> 177

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catgctggag	ccaaagtcta	acatgcctt	gttcaaggga	tggaaagtca	cccgtaagga	120
tggcaatgcc	agtggAACCA	cgctgcttga	ggctctggac	tgcacatctac	caccaactcg	180
cccaactgac	aaggcccttgc	gcctgcctct	ccaggatgtc	tacaaaattt	gtggatttgg	240
tactgttcc	gttggccgag	tggagactgg	tgttctcaaa	cccggtatgg	tgttccac	300
tgctccagtc	aacgttacaa	cggaagtaaa	atctgtcgaa	atgcacccat	aaaccttgg	360
tgaagcttt	cctggggaca	atgtgggctt	caatgtcaag	aatgtgtctg	tcaaggatgt	420
tcgtcggtgc	aacgttgctg	gtgacagcaa	aatgacccca	ccaatggaaag	cagctggctt	480
cactgctcag	gtgattatcc	tgaaccatcc	aggccaaata	agtgcggct	atgcggccgt	540
attggatgc	cacacggctc	acattgcatt	caagtttgct	gagctgaagg	aaaagattga	600
tcggcggtct	ggtaaaaaagc	tggaaatgg	ccctaaattt	ttgaagtctg	gtgatgctgc	660
cattgttgc	atggttcc	gtcaagccat	gtgtgttgg	agcttctcag	actatccacc	720
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acatgctta						788

<210> 178

<211> 786

<212> DNA

<213> Homo sapien

<400> 178

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attgttggtc	gttttttc	attaaagggtt	taatcagaca	gatcagacag	cataatttt	180
tatataatga	cagaaacgtt	ggtacattt	tccatgaatg	agcttgcatt	ctgaagcaag	240
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gtttcagagc	agccagtgt	tgttccagtc	agtatgtct	agttatata	aggaggagta	360
cactgtgcac	tcttctaggt	gtaagggtat	gcaactttgg	atcttaaaat	tctgtacaca	420
tacacactt	atataatgt	atgtatgtat	gaaaacatga	aattatgtt	tcaaataatgt	480
gtgtgtttag	tattttagct	tagtgcact	atttccacat	tatttattaa	attgatctaa	540
gacactttct	tgttgcacacc	ttgaatatta	atgtcaagg	gtgaaatgt	tattccttta	600
gattgttaaa	gcttaattac	tatgatttgt	agtaaattaa	ctttaaaaat	gtatgttgg	660
ccttctgttag	tgtcgtaggg	ctttcacagg	gtggggaaaga	tttaattttt	ccagttctca	720
attgaacagt	atggcctcat	tatataat	gattatagg	agtttgcgtc	tgggctcaac	780
atgtcta						786

<210> 179

<211> 796

<212> DNA

<213> Homo sapien

<400> 179

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gcttttaaaa	agccagtgaa	ccttttaat	acttggcaa	ccttcttca	caggccaaaga	120
acaccccccatt	ccgccccctt	tttggagatgc	agagtttggc	tttgggttctt	tgcttcgtct	180
ggagtatact	tctaatttct	gttgcctgc	acaagctgaa	taccgagct	cccaccccca	240
cccaggccag	gtttccactc	atttattact	ttatgtttct	gttccattgc	tggccacag	300
aaataagttt	tccttggag	aatgtgatt	atacccctt	aattccctt	ttttgttttt	360

*Suwa A1*

tttaatatac attggatgt gtttggcca gaggaaactg aaattcacca tcatcttgcac	420
tggcaatccc attaccatgc ttttttaaa aacgtaatt tttcttcct tacattggca	480
gagtagccat tcctggctac tggcttaatg tagtcaactca gtttcttaggt ggcatttaggc	540
atgagacctg aagcacagac tgccttacca caaaaggtga caagatctca aaccttagcc	600
aaagggtat gtcagggttc aatgctatct gcttctgttc ctgcactg ttctggattt	660
tgtccttctt catcccttagc accagaattt cccagtctcc ctccctaccc tcccttgttt	720
taattctaat ctatcagcaa aataactttt caaatgtttt aaccggatc tccatgtgtc	780
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<210> 180	
<211> 488	
<212> DNA	
<213> Homo sapien	
<400> 180	
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aaaacgcagg ccagtgaatt gtaatacgac tcactatagg gcgaattggg cccgacgtcg	120
catgctcccg gcccgcattgg ccgcggata gcatgtttag cccagacacc tgcaaggat	180
ttggagagat tttcacgtt accagctga tggctttt caggaggaga gacactgagc	240
actcccaagg tgaggttga gattccctt agatagccgg ataagaagac taggagggat	300
gcctagaaaa tgattagcat gcaaatttc acctgccatt tcagaactgt gtgtcagccc	360
acattcagct gcttcttgc aactgaaaag agagaggtat tgagactttt ctgatggccg	420
ctctaacatt gtaacacagt aatctgtgtg tgggtgggtg tgggtgtgt tctggctca	480
acatgcta	488
<210> 181	
<211> 317	
<212> DNA	
<213> Homo sapien	
<400> 181	
tagcatgtt agccagaca cggcgacggt acctgatgag tgggtgtat gcacctgtga	60
aaaggaggaa cgtcatcccc catgatattt gggaccaga tggatggacca tggctccgc	120
tcaatgcata ttatccat gatactgctg attgaaagga cctgaactt aagttgtgc	180
tgcagggtta tcggactat tacctcacgg gtatcaaaa cttcctgaag gacatgtggc	240
ctgtgtgtct agtaagggat gcacatgcag tggccagtgt gccagggtt tgggtgtgt	300
ctggctcaa catgta	317
<210> 182	
<211> 507	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1)...(507)	
<223> n = A,T,C or G	
<400> 182	
tagcatgtt agccagaca ctggctgtta gccaatcct ctctcagctg ctccctgtgg	60
tttggtgact caggattaca gaggcatcct gtttcaggga acaaaaaagat tttagctgcc	120

SubAI

agcagagagc accacataca ttagaatggt aaggactgcc acctcctca agaacaggag 180  
 tgaggggtggt ggtgaatggg aatggagcc tgcattccct gatgcattt tgctctca 240  
 aatccctgtct tagtcttagg aaaggaagta aagttcaag gacggttccg aactgcttt 300  
 tgtgtctggg ctcaacatgc tatcccgcc ccatggccgc cgggagcatg cgacgtcggg 360  
 cccaattcgc cctatagtga gtcgtattac aattcactgg ccgtcggtt acaacgtcgt 420  
 gactggaaa accctggcgt tacccaactt aatcgccctg cagcacatcc cccttccca 480  
 gctggcgtaa tancgaaaag gcccgc 507

<210> 183  
 <211> 227  
 <212> DNA  
 <213> Homo sapien

<400> 183  
 gatttacgct gcaacactgt ggaggttagcc ctggagcaag gcaggcatgg atgcttctgc 60  
 aatccccaaa tgaggcctgg tatitcagcc aggaatctga gcagagcccc ctctaattgt 120  
 agcaatgata agttattctc tttgttctt aacttccaa tagcctttag gttccagggg 180  
 agtgcgtta atcattacag cctggctcc acagtgttgc agcgtaa 227

<210> 184  
 <211> 225  
 <212> DNA  
 <213> Homo sapien

<400> 184  
 ttacgctgca acactgtgga gcagattaac atcagactt tctatcaaca tgactgggt 60  
 tactaaaaag acaacaaatc aatggcttca aaagtctaa gaataattc gataattcaa 120  
 ctttataaaaa cctgacaaaa ctatcaatca agcataaaga cagatgaaga acatttccag 180  
 attttggcca atcagatatt ttacccac agtgttgcag cgtaa 225

<210> 185  
 <211> 597  
 <212> DNA  
 <213> Homo sapien

<400> 185  
 ggcccgacgt cgcatgctcc cggccgccat ggccgcggg ttcgttaggg tcttatcca 60  
 ctgggaccca taggttagtc agagtattt gaggtagtt ctttctgtc tccagaatt 120  
 taaaagaaaa ggagttaggt gatagagctg agagatcaga tttgcctctg aagctgttc 180  
 aagatgtatg tgctcagacc ccaccactgg ggcctgtggg tgaggtcctg ggcatttt 240  
 tgaatgaatt gctgaagggg agcactatgc caaggaaggga aacccatcc tggactggc 300  
 acaggggtca ctttatccag tgctcagtc ttcttgcgt ctacctgtt ttctctata 360  
 tgtgaggggc agttaagaag aagtgcctrg tggtagtgcga gttttagaac atctaccatg 420  
 aagtggggaa gtttcacaaa gcagcagctt tgtttgcgt atttcacct tcagtttagaa 480  
 gaggaaggct gtgagatgaa tgtagtgcgtt gttggaaaaga cggtaagct tagtggatag 540  
 agaccctaac gaatcactag tgcggccgc ttgcaggctc accatatggg agagctc 597

<210> 186  
 <211> 597  
 <212> DNA  
 <213> Homo sapien

Sukha

<400> 186  
 gccccgaagt tgcatgttcc cggccgccat ggccgcggga ttcgttaggg tctctatcca 60  
 ctacctaaaa aatcccaaac atataactga actcctcaca cccaatttgg acaatccatc 120  
 accccagagg cctacagatc ctcccttgat acataagaaa atttcccaa actacctaac 180  
 tatacattt tgcaagattt gtttaccaa attttgatgg ccttctgag cttgtcagtg 240  
 tgaaccacta ttacgaacga tcggatatta actgcccctc accgtccagg ttagctggc 300  
 aacatcaagt gcagtaata ttcattaagt tttcacctac taaggtgctt aaacacccta 360  
 gggtgccatg tcgttagcag atctttgat ttgttttat ttccataag ggtcctgttc 420  
 aaggtcaatc atacatgtat tggagcagc tagtcaatat cgcatgactt ggagggtgat 480  
 aatagaggcc tccttgctg taaaagaact cttgtccctg cctgtcaaag tggatagaga 540  
 ccctaaccaa tcactagtgc ggcgcctgc aggtcgacca tatggagag ctcccaa 597

<210> 187  
 <211> 324  
 <212> DNA  
 <213> Homo sapien

<400> 187  
 tcgttaggt ctctatccac ttgcaggtaa aatccaatcc tggtatatac ttatagtctt 60  
 ccatatgtat tggttcaaga gactgcagtt ccagaaagac tagccgagcc catccatgtc 120  
 ttccactaa ccctgcttg gtttacacat cttaactttt ctgtcaagt ttctctgtgt 180  
 agtttatacg atgagtattt ggawaatgcc ctggaaacctg acatgagatc tggaaacac 240  
 aaacttactc aataagaatt tctccatatt tttatgtat gaaaaatttc acatgcacag 300  
 aggagtggat agagacccta acga 324

<210> 188  
 <211> 178  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (178)  
 <223> n = A, T, C or G

<400> 188  
 gcgcgggat tcgggtgat acctcctcat gccaaaatac aacgtntaat ttccacaactt 60  
 gccttccat ttacgcattt tcaatttgct ctccccattt gttgagtcac aacaaacacc 120  
 attgcccaga aacatgtatt acctaacatg cacatactct taaaactactt catccctt 178

<210> 189  
 <211> 367  
 <212> DNA  
 <213> Homo sapien

<400> 189  
 tgacacacctg tccagcatct gacacagtct tggctttgg aaaatattgg ataaatgaaa 60  
 atgaatttct ttagcaagtgt tataagctg agaatatacg tatcacatct cctcattcta 120  
 agacacattc agtgcctg aaatttgcattt aggacttaca ataagtgtgt tcacttctc 180  
 aatagctgtt attcaatttga tggtaggcct taaaagtcaa agaaatgaga gggcatgtga 240

aaaaaagctc aacatcaactg atcattagaa aacttccatt caaaccggca atgagatacc 300  
 atctcatacc agttagaattg gctattatta aaaagtcaaa aaataacaga tgctggacaa 360  
 ggtgtca 367

<210> 190  
 <211> 369  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (369)  
 <223> n = A, T, C or G

<400> 190

gacacccctgt ccagcatctg acaacgctaa cagcctgagg agatctttat ttatttattt 60  
 agttttact ctggcttaggc agatggggc taaaacatcc atttacccat ttattcattt 120  
 aattgttccct gcaaggccta tggatagagt attgtccagc actgctctgg aagcttaggag 180  
 catggggatg aacaagatag gctacatccct gttcccacag aacttccact ttagtctggg 240  
 aaacagatga tatatacaaa tatataaatg aattcaggta gtttaagta cggaaaagaat 300  
 aagaaaagcag agtcatgatt tanaatgctg gaaacagggg ctattgcttgg agatattgaa 360  
 ggtgccccaa 369

<210> 191  
 <211> 369  
 <212> DNA  
 <213> Homo sapien

<400> 191

tgacaccccttg tccagcatct gcacaggaa aagaaaactat batcagagtg aacaggcaac 60  
 ctacagaatg ggagaaaatt tttgcaatct atccatctga caaaggccta atatccagaa 120  
 tctacaaaga acttatacaa atttacaaga aacaaacaaa caaacaactc ctcaaaaagt 180  
 gggtaagga tgtgaacaga cacttctcaa aagaagacat ttatggggcc aacaaacata 240  
 tgaaaaaaag ctcatcatca ctggtcacta gataaatgca aatcaaaaacc acaatgagat 300  
 accatctcat tccagttaga atggcaatca taaaaagtc agggaaacaaac agatgctgga 360  
 caaggtgtc 369

<210> 192  
 <211> 449  
 <212> DNA  
 <213> Homo sapien

<400> 192

tgacgcttgg ccacttgaca cttcatctt gcacagaaaa acttctttac agatttattt 60  
 caagacttgt ctatgtacag tcctccagac atttttcat ttgttccata tacgtggaaat 120  
 tttaaaatca tgtttcatca gtttggaaatg atttgggctg ctaatcaaca caattggatc 180  
 gactgttctt ctaaacaaca ggaaaatgtg tatctggcag cctgtggaga aacactaaac 240  
 attgatttt cttgcctt tacggactt gttccagcta catgttaatac caagttctt 300  
 ttaagaggag aagatgttga tcttcattt gtttaccag actgccaccc tagtaataat 360  
 tctttattta tgctggtaaa aaattgccc ccaataaga tgattcatga tactggattt 420  
 cctgctgagt gtcaagtggc caagcgtca 449

Sub A

<210> 193  
 <211> 372  
 <212> DNA  
 <213> Homo sapien

<400> 193  
 tgacgcttgg ccacttgaca ccaggatgt akcagttgaa tataatcctg caattgtaca 60  
 tattggcaat ttcccatcaa acattctaga aagagacaac caggattgct aggcataaa 120  
 agctgcaata aataactggt aattgcagta atcatttcag gccaattcaa tccagttgg 180  
 ctcagaggtg ccttggctg agagaagagg tgagatataa tgtgtttct tgcaacttct 240  
 tggagaata actccacaat agtctgagga ctagatacaa acctattgc cattaaagca 300  
 ccagagtctg ttaattccag tactgataag tggatggat tagactccag tgtgtcaagt 360  
 ggccaagcgt ca 372

<210> 194  
 <211> 309  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (309)  
 <223> n = A,T,C or G

<400> 194  
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 ttaggcttag tggtgtggc accttcaata tcacactaga gacaaacgcc acaagatctg 120  
 cagaaaacatt cagttctgan cactcgaatg gcaggataad ttttgtgtt gtaatccttc 180  
 acatatacaa aaacaaactc tgcantctca cgttacaaaaaa aacgtactg ctgtaaaata 240  
 ttaagaaggg gtaaaggata ccatctataa caaagtaact tacaacttagt gtcaagtggc 300  
 caagcgtca 309

<210> 195  
 <211> 312  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (312)  
 <223> n = A,T,C or G

<400> 195  
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 ggactgcaac tatccccact tcccagatga ggggaccaan gtacacatta ggaccggat 120  
 gggagcacag atttgtccga tcccagactc caagcactca gctgtcactcc aggacaggg 180  
 ctttcagata aggtcacaaa catgaatggc tccgacaacc ggagtcaatc cgtgctgagt 240  
 taaggcaatg gtgacacgga tgcacgtgtt acctgtaatg gttcatcgta agtgtcaagt 300  
 ggccaagcgt ca 312

Subs,

<210> 196		
<211> 288		
<212> DNA		
<213> Homo sapien		
<400> 196		
tgtatcgacg tagtggtctc ctcagccatg cagaactgtg actcaattaa acctcttcc	60	
tttatgaatt accaatctc gggtagtgc tttatagtag tgtgagaatg gactaataca	120	
agtagatattt acttagtaat aataataaaac aaatatatta cattttgtg tatttactac	180	
accatatttt ttattgttat tgttagtgc accttctact tattaaaaga aataggcccg	240	
aggcgggcag atcacgaggt caggagatgg agaccactac gtcgatac	288	
<210> 197		
<211> 289		
<212> DNA		
<213> Homo sapien		
<400> 197		
ttgggcacct tcaatatcat gacaggtgat gtgataacca agaaggctac taagtgatta	60	
atgggtgggt aatgtataca gagtaggtac actggacaga ggggtaattc atagccaagg	120	
caggagaagc agaatggcaa aacatttcat caactactc aggatagcat gcagttaaa	180	
acctataagt agtttatttt tggaattttc cacttaatat tttcagactg caggtacta	240	
aactgtggaa cacaagaaca tagataaggg gagaccata cgtcgatac	289	
<210> 198		
<211> 288		
<212> DNA		
<213> Homo sapien		
<400> 198		
gtatcgacgt agtggtctcc caagcagtgg gaagaaaacg tgaaccaatt aaaatgtatc	60	
agatacccca aagaaaggcg cttgagtaaa gattccaagt gggtcacaat ctcagatctt	120	
aaaattcagg ctgtcaaaga gatttctat gagttgctc tcaatgactt caggcacagt	180	
cggcaggaga ttgaagccct ggccattgtc aagatgaagg agctttgtgc catgtatggc	240	
aagaaagacc ccaatgagcg ggactcctgg agaccactac gtcgatac	288	
<210> 199		
<211> 1027		
<212> DNA		
<213> Homo sapien		
<220>		
<221> misc_feature		
<222> (1)...(1027)		
<223> n = A,T,C or G		
<400> 199		
qctttttggg aaaaacncaa ntggggaaaa gggggntnn tngcaagggg ataaaggggg	60	
aancccaggg tttccccatt cagggaggtg taaaaagncg gccagggat tgtaanagga	120	
ttcaataata ggggaaatgg gcccngaagt tgcaagggtc cngccgc当地 tgnccgc当地	180	
atttagtgac attacgacgs tggtaataaa gtgggscsaa waaatattt tgatgtgatt	240	

tttsgaccag tgaaccatt gwacaggacc tcatttccty tgagatgrta gccataatca 300  
gataaaagrt tagaagtytt tctgcacgtt aacagcatca ttaaatggag tggcatcacc 360  
aatttcaccc tttgttagcc gataccttcc ccttgaaggc attcaattaa gtgaccaatc 420  
gtcatacgag agggatggc atggggattg atgatgatac caggggtgat accttcacag 480  
gtgaaaggca tattccttgc tctatactga ataccacaag tacccttttgc accatgtcga 540  
ctagcaaatt tgcgtccaaat ctgtgtwac cctaacagag cgtaccctta ttttacaaaa 600  
tttatatcct tcctgattga gagttaccat aacctgatcc acaatgcccgt tctcgctwgt 660  
tctgagaaaaa gtgctacagt ctctcttggc atagcgtcta ttgggtgtctt ccaattcatc 720  
ttcatttttc aggcaaggtg aactgttttgc cctataataaa cmtcatctcc tgatacmcgaa 780  
aaccckggaa rctatcaaaccatcatc cagcgttckt watgtymcta aatccctatt 840  
gcggccgcct gcaggtcaac atatngggaaa accccccacc ccttnnggagc ntaccttggaa 900  
ttttccatat gtcccnntaaa ttanctngnc ttanccctggc cntaacctnt tccggtttaa 960  
atgtttccg ccccnnttcc ccnccttnna accggaaacc ttaattttna accnggggtt 1020  
cctatcc 1027

<210> 200  
<211> 207  
<212> DNA  
<213> *Homo sapien*

<400> 200  
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cacttggta agcctgatcc ctctggttt tcacaaaagaa taggatggta taaagaaaagt 120  
ggacacttaa ataagctata aattatatgg tccttgcata gcaggagaca actgcacagg 180  
tatactacca gcgtcgtaat gtcacta 207

<210> 201  
<211> 209  
<212> DNA  
<213> *Homo sapien*

<400> 201  
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gaggttacat ctggagtcct cgatatatca ggaaaaaaatg aagtgaacat tcacagagg 120  
ttacttcctt gggactcaa atgctagaaa agaaaaagggt gccctcttc tctggcttcc 180  
tggcctatc cagcgtcgtatgtcacta 209

<210> 202  
<211> 349  
<212> DNA  
<213> *Homo sapien*

```
<220>
<221> misc_feature
<222> (1)...(349)
<223> n = A.T.C or G
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<400> 202 ntacgctgca acactgtgga gccactggtt tttattcccg gcaggttatac cagcaaacag 60  
tcactgaaca caccgaagac cgtggtatgg taaccgttca cagtaatcgt tccagtcgtc 120  
tgcgggaccc cgacgagcgt cactgggtac aqaccaqatt cagccqqaq aqaaaqgcgc 180

Suhai  
 0 1 2 3 4 5 6 7 8 9  
 gcagggagag actcgaactc cactccgctg gtgagcagcc ccatgtttc aactcgaagt 240  
 tcaaacggca tgggttata taccatcagc tgaacttcac acacatctcc ttgaacccac 300  
 tggaaatcta ttcttcttgc ccgttcttcc acacagtgtt gcagcgtaa 349

<210> 203  
 <211> 241  
 <212> DNA  
 <213> Homo sapien

<400> 203  
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 acaactgcta ccaccaccac caaccttaggg atttaggatt ctccacagac cagaaattat 180  
 ttctcctttg agtttcaggc tcctctggga ctccctgttca tcaatgggtg gtaaatggct 240  
 a 241

<210> 204  
 <211> 248  
 <212> DNA  
 <213> Homo sapien

<400> 204  
 tagccattta ccacccatct gcaaaccswg acmwwcargr cywgwackya ggcgatttg 60  
 agtactgta atgctctgat catgttagtt acataagtgt ggtcagtttta caaaaattca 120  
 cagaactaaa tactcaatgc tatgtgttca tgtctgtgtt tatgtgtgtg taatgtttca 180  
 attaagtttt tttaaaaaaaa agagatgatt tccaaataag aaagccgtgt tggttaaggca 240  
 agaggagc 248

<210> 205  
 <211> 505  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(505)  
 <223> n = A, T, C or G

<400> 205  
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 ctaccttgc acggttaggg taccgcggcc gttaaacatg tgcactggg cagcggtgc 120  
 ctctaaact ggtgatgta gaggtgatgt tttggtaaa caggcggtt aagatttgc 180  
 gagttcctt tactttttt aaccttcct tatgagcatg cctgtgttgg gttgacagtg 240  
 gggtaataa tgacttggg gttgattgta gatattggc ttttaattgt cagttcgtg 300  
 ttttaatctg acgcaggctt atgcggagga gaatgtttc atgttactta tactaacatt 360  
 agttcttcta tagggtgata gattggtcca attgggtgtg aggagttcag ttatatgtt 420  
 gggattttt aggttagtggg ttttgcattt gaaacgtttc ttaattgggtg gctgctttt 480  
 rgcctactat ggggtggtaaa tggct 505

<210> 206  
 <211> 179

<212> DNA  
<213> Homo sapien  
  
<400> 206  
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ggccgggcat ggttagcacac acctgtatac ccagctacta ggggacatga gtcagtctt  
60  
120  
179  
  
<210> 207  
<211> 176  
<212> DNA  
<213> Homo sapien  
  
<400> 207  
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agactggta tggtcagtgg cctgggggtt ggggacctctt attatatggg atacaattt  
aggagtttga attgacacga tttagtgact gatgggatata ggggtggtaaa tggctt  
60  
120  
176  
  
<210> 208  
<211> 196  
<212> DNA  
<213> Homo sapien  
  
<400> 208  
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aacattgcat ataacttata ttgtaagaaa tactgtacaa tgactttattt gcatctgggt  
agctgttaagg catgaaggat gccaagaagt ttaaggaata tgggtggtaa atggctaggg  
gacatgagtc agtcta  
60  
120  
180  
196  
  
<210> 209  
<211> 345  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1)...(345)  
<223> n = A,T,C or G  
  
<400> 209  
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tgtaaagtTTT tcctgtgccc ccataagaat gatagtttt aaaaattatgc tgggttagca  
aagaagatac ttcttagctt agaatgtgtt ggtatagccg ggattttgtt gaggaggggt  
gatTTtagAGC aaatttctta ttctcccttgc ctcatctgtt acatggggat aataatagaa  
ctggcttggac aagggtggaa tttagtattac atggtaataa catgtaaaat tttagaaatg  
gtgccaagta tcttaggaagt acttggcat ggggtggtaaa tggct  
60  
120  
180  
240  
300  
345  
  
<210> 210  
<211> 178  
<212> DNA  
<213> Homo sapien



*Sub A*

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aattgagctc tcagttcaga ttttaggaga atttaacag ggatttggtt ttgtctaaat	540
tttgcatt tnttagtta atctgtataa tttataaaat gtcaaactgt atttagtccg	600
ttttcatgct gcatgaaag aaataccan gacagggta tttataaaang gaaagangtt	660
aatttgactc ccagttcaca ggcctgagga ngnatcnccc gaaatcctta ttgcg	715
<210> 214	
<211> 345	
<212> DNA	
<213> Homo sapien	
<220>	
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<222> (1) ... (345)	
<223> n = A, T, C or G	
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tcccacctgc ctgattcttc atatgtggg tgccctgtt tttctgtgc tatttcctga	180
ctgctgtca gctgccactg tcctgcataag cctgccttt taaatgcctc accattcctt	240
catttgcatttca ttaaatatgg gaagtgaag tgccacctga ggccggcac agtggctcac	300
gcctgtataatc ccagcacttt gggagcgtga ggaggcatca cccga	345
<210> 215	
<211> 429	
<212> DNA	
<213> Homo sapien	
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aaaagctcgc ttgatcttga tttcagtagac gaatacagac cgtgaaagcg gggcctcacg	120
atccttctga cctttgggt ttaagcagg aggtgtcaga aaagttacca caggataaac	180
tggcttgtgg cggccaagcg ttcatagcga cgtcgcttt tgatccttcg atgtcggtc	240
ttccttatcat tgtgaagcag aattcacaa gcgttggatt gttcacccac taataggaa	300
cgtgagctgg gtttagaccc tcgtgagaca ggttagttt accctactga tgatgtgtkg	360
ttgccatggtaatcctgctc agtacgagag gaaccgcagg ttcasacatt tggtgtatgt	420
gcgtgcctt	429
<210> 216	
<211> 593	
<212> DNA	
<213> Homo sapien	
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<223> n = A, T, C or G	
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 tctgtctga ggtatacaag tatatcgga ggtgtatacc ttctcttc ttccccacca 120  
 aagagaacat gcaggctctg gaagctgtct taggagcctt tgggctcaga atttcagat 180  
 cttgggtacc ttggatgtgg tctggaagga gaaacattgg ctctggataa ggagtacagc 240  
 cggaggaggg tcacagagcc ctcagctaa gcccctgtgc ctttagtctaa aagcagctt 300  
 ggtatggaa gcaggtaag taacatacgt aagcgtacac aggtgaaag tgctggag 360  
 cagaattgca cagtgtgttag gagtagtacc tcaatcaatg agggcaaatac aactgaaaga 420  
 agaagaccna ttaatgaatt gcttangggg aaggatcaag gctatcatgg agatcttct 480  
 aggaagatta ttgttanaa ttatgaaagg antagggcag ggacagggcc agaagtanaa 540  
 ganaacattt cctatancctt ttgtcttgca cccagatgct ggacaagggtg tca 593

<210> 217  
 <211> 335  
 <212> DNA  
 <213> Homo sapien

<400> 217

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 cctggttctg tgggtccgt ggcaatgaat tcttctgtga agtggatgaa gactacatcc 120  
 aggacaaatt taatcttact ggactcaatg agcaggtccc tcactatcga caagctctag 180  
 acatgatctt ggacctggag cctgatgaaag aactggaaga caaccccaac cagagtgacc 240  
 tgattgagca ggcagccgag atgctttatg gattgatcca cgcccgctac atccctacca 300  
 accgtggcat cgcccaagatg ctggacaagg tgtca 335

<210> 218  
 <211> 248  
 <212> DNA  
 <213> Homo sapien

<400> 218

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 tgtatgaaat gggactgtaa gtacagaggg aagggtggcc cttatcgcca gaagttggta 120  
 gatgcgtccc cgcatgaaa tttgtgtca ctggccgaca tttgccgaaat tactgaaatt 180  
 ccgtagaatt agtgcattt ctaacgttgc tcatctaaga ttatggttcc atgtttctag 240  
 tactttta 248

<210> 219  
 <211> 530  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(530)  
 <223> n = A,T,C or G

<400> 219

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 ctctgtggac attgggtcat tttcacacat accattctct ttctgcttca cagcagtcc 180  
 gaggcgggag cacacaggac taccttgca gatgangata atgatgtctg gccaactcac 240

*Sub A1*

cccccaacct	tatcactagt	tatangaaga	gccangccta	naaccttcta	tcctgncccc	300
ttgcctatg	acttcatccc	tgttccatgc	cctattctga	tttctggta	actttggagc	360
agcctggttt	ntccctcctca	ctccagcctc	tctccatacc	atggtanggg	ggtgctgttc	420
cacncaaang	gtcaggtgtg	tctgggaat	cctnananct	gccnngagtt	tccnangcat	480
tcttaaaaac	cttcttgctt	aatcanatng	tgtccagtgg	ccaaccntcn		530
<210> 220						
<211> 531						
<212> DNA						
<213> Homo sapien						
<400> 220						
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ctgtgtttct	gctggaaaag	gagggaaagag	aatggctga	tttttaccta	atgtctccca	180
gtttttcata	ttcttcttgg	atcctcttct	ctgacaactg	ttccctttg	gtcttcttct	240
tcttgc当地	agagcaggc	tctttaaaac	tgagaaggga	aatgagacaa	atgattaaag	300
aaaacacact	tctgaggccc	agagatcaa	tattaggtaa	ataactaaacc	gcttcctgc	360
tgtggtcact	tttctctct	ttcacatgct	ctatccctct	atccccacc	tattcatatg	420
gtttttatct	gccaagttat	ccggcctctc	atcaaccttc	tcccctagcc	tactggggga	480
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<210> 221						
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<212> DNA						
<213> Homo sapien						
<400> 221						
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tggtcctcag	cctctctgag	gagaaagagc	agaaggctgg	aagtcaag	agaagctaga	180
tcggctacgg	ccttggcagc	cagttcccc	acotgtggca	ataaaagtctgt	gcatggctta	240
acaatggggg	cacctcctga	gaaacacatt	gttaggcaat	tcggcgtgt	ttcatcagag	300
catatttaca	caaaccctga	tagtgcc	tactatccac	tattgctct	acgctgcaaa	360
cctgaacagc	atgggactgt	actgaatact	ggaagcagct	ggtgtatgt	cttatttgt	420
tatctaaaca	cagagaaggt	acagtaagaa	tatggtatca	taaacttaca	gggaccgc	480
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<210> 222						
<211> 578						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(578)						
<223> n = A,T,C or G						
<400> 222						
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ctgaaaggcg	catctccctc	cccgcgctc	cctgaagcag	ggggaggact	tgcggccagcc	120

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 aataaacnaa aaccaaaaaa aaaagagaag gggaaatgtt tatgtctgtc catcctgttg 360  
 cttagcctg tcagctccta naggcaggg accgtgtctt ccgaatggc tgcagcgc 420  
 cgactgcggg aagtatcggg ggaggaagca gactcagcag aagttAACG gtggcccg 480  
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<210> 223  
 <211> 578  
 <212> DNA  
 <213> Homo sapien

<400> 223

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 gtcactgttt catttgcattt ctagaagggtt agtcttagat atgttacttt aacctgtatg 180  
 ctgttagtgc ttgaatgcat tttttgtttt cattttgtt tgcccaacct gtcaattata 240  
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 ctcaattttt gggtcattt tgggtgcctt aaattttagg gtgtgacttt ctttagcatcc 420  
 tgtaacatcc attcccaagc aagcacaact tcacataata cttccagaa gttcattgct 480  
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<210> 224  
 <211> 345  
 <212> DNA  
 <213> Homo sapien

<220>  
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 <223> n = A,T,C or G

<400> 224

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 aaaagtcttt tcaatctaca tggtaaata atgatagcct gggaaataaaa tagaaatttt 180  
 ttctttcatc ttttaggttga ataaagaaac agaaaaataa gaacatactt aaaataatct 240  
 aagttccaaac catagaagaa ctgcagaaga aatgaagaaa gtgtatgtt gtttagatttt 300  
 gatattgatt tagaagacac aggaggagac cactacgtcg ataca 345

<210> 225  
 <211> 347  
 <212> DNA  
 <213> Homo sapien

<400> 225

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*Sub A1*

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ctctaagtat tctttcttaa aactgatcaa ggtgtgaagc ctgtgtctt tcccaactcc	180
cctttgacaa cagccttcaa ctaacacaag aaaaggcatg tctgacactc ttccctgagtc	240
tgactctgtat acgttggttt gatgtctaaa gagctccaga acaccaaagg gacaattcag	300
aatgctggtg tataacagac tccaatggag accactacgt cgataca	347
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<211> 281	
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<213> Homo sapien	
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aaattnaaatc ttgtcatgac aagtctggaa ttccctgatga ggttttacaa agtattttgg	180
atcaataactc caacaaatca gaaagccaga aagaggatcc tttcaatatt gcagaaccac	240
gagtggattt acacaccta ggagaccact acgtcgatac a	281
<210> 227	
<211> 3646	
<212> DNA	
<213> Homo sapien	
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agctttttaga gatagcccaa aaggtttttgc acgtcaaga ggttggaaaaa caaaaacaag	1260
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Sub Al

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ctggccgacc	tgatCTTcaa	aatgtcccc	taggaaaggt	ggatGCCacc	atgttcacag	1500
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cagatgtgtt	gtgggCTca	gttaccag	caaacacctc	agcacaaaag	gctgaattga	1620
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caagtagAAC	gcatgaactg	caccCTaaaa	aacactctta	caaaattaaat	cttagaaacc	2580
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ttccagagag	aaggactccc	tcctgttgg	aagagacctc	acaccgtcat	cacgatGCCA	2940
acggCTCTga	aggTggatgg	cattcCTgcG	tggattcata	actccgcat	caaaaaggcc	3000
aacagagccc	aactagaaac	atgggTcccc	agggCTgggt	caggCCCTT	aaaactgcac	3060
ctaagtTggg	tgaagCCatt	agattaattc	ttttCTtaa	ttttgtaaaa	caatgcata	3120
cttCTGTcaa	acttatgtat	cttaagactc	aatataaccc	cottgttata	actgaggaaat	3180
caatgatttgc	attcccccaa	aaacacaagt	ggggaaTgtA	gtgtccaacc	tggtttttac	3240
taaccCTgtt	tttagactct	ccctttcTT	taatcactca	gcttGTTcc	acctgaattg	3300
actctccCTT	agctaagago	gccagatgg	ctccatCTTg	gctctttcac	tgccagCCGc	3360
ttcctcaagg	acttaacttg	tgcaagCTga	ctcccagcac	atccaagaat	gcaattaact	3420
gataagatac	tgtggcaAGC	tatATCCGA	gttcccagga	attcgtccaa	ttgatcacag	3480
cccCTCTacc	cttcagcaac	caccacCTG	atcagtcagc	agccatcagc	accgaggcaa	3540
ggccCTCCAC	cagaaaaaAG	attctgactc	actgaagact	tggatgatca	tttagtatttt	3600
tagcagtaaa	gttttttttt	cttttCTTT	cttttttct	cgtGCC		3646

<210> 228  
<211> 419  
<212> DNA  
<213> Homo sapien  
  
<220>  
<221> misc\_feature  
<222> (1) ... (419)  
<223> n = A, T, C or G  
  
<400> 228

taagagggtta caagatctaa gcacagccgt caatgcagaa cacagaacgt agcctggtaa 60  
 gtgtgttaag agtggaaatt tttggagttac agagtaaggc acctaaccct agctggggtt 120  
 tgggtacggc cccagatggc ttacagaaga aagtgtcctg agatgagttt ttaagaatga 180  
 ataaggatag acacaagtgc ggactgactt ggcagtgggt aatgggtgggt ggcaaaaaac 240  
 ttccgcgtta tgaaaaactgc acgtacagga atgaagaatg agactgtgtg gtgtttatag 300  
 agctgcaaata actaatttttccctgaaatg tttgaagatg taactaaaaa gtatttttta 360  
 gtaaggaaat aaccctacat ttccagggtta ttgtttgttt anatattgaa ggtgccccaa 419

<210> 229  
 <211> 148  
 <212> DNA  
 <213> Homo sapien

<400> 229  
 aagagggtac ctgtatgttag ccatggggc aatgagagac tgattactac ctgctggaga 60  
 ttgttttaagt gagttatat attaaggata aaggggagcca ggttttttga ctgttggaga 120  
 agggaaattac agatattgaa ggtcccaa 148

<210> 230  
 <211> 257  
 <212> DNA  
 <213> Homo sapien

<400> 230  
 taagagggtta cmaaaaaaaa aaaatagaac gaatgagttaa gacctactat ttgatagtac 60  
 aacagggtga ctatagtcaa tgataactta attatacatt taacatagag tgtaattgg 120  
 ttgtttgtaa ctgcaggat aaatgctga gaggatggat accccattct ccatgatgt 180  
 cttatattcac attacatgcc tgcataaag catctcatat accctataaa tatgtacacc 240  
 tactatgtac cctctta 257

<210> 231  
 <211> 260  
 <212> DNA  
 <213> Homo sapien

<400> 231  
 taagagggtta cgggttatttgcgtatggat tttttttct ttcttttct ttggaaaaca 60  
 aaatgaaagc cagaacaaaa ttattgaaca aaagacaggg actaaatctg gagaatgaa 120  
 gtccctcac ctgactgcca tttcattcta tctgaccttc cagtcttaggt taggagaata 180  
 ggggggtggag gggattaaatc tgatacaggt atatttaaag caactctgca tgcgtgcccag 240  
 aagtccatgg taccccttta 260

<210> 232  
 <211> 596  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(596)  
 <223> n = A,T,C or G

*SubA'*

<400> 232	
tgctcctctt gccttaccaa ccacaaatta gaaccataat gagatgtcac ctcatacctg	60
gtgggattaa cattattaa aaaatcagaa gtattgacaa ggatgtgaag aaattagaac	120
atctgtgcac tgggtgggg aatgtaaaaa aggtgtggcc actatggta acagcatgaa	180
ggttcctcaa aaaaaatttt ttttaatcta ctctatgatc gatcttgagg ttgtttatgc	240
aaaagaactg aaatcaggat tttgagaaaa tattcacatt cccacatcca tttctgcttt	300
attcataata ctcaagagat gaaacaacc taaatgtcca tcccggtatg aatggataaa	360
cacagtgtgg tataatgcata caatggata ttathtagtc tttaaaaaga aaaattctat	420
catataactac aacttanatn aaccttgagg acacaatgct nagtgaaata agccacggaa	480
ggacgaatac tgcattattc ccttatatga agtatctaaa gtggtcaaac tcttanagca	540
naaagtaaaa atgggtggtt gccanacagt tggtaggcn agaaganaan cctant	596
<210> 233	
<211> 96	
<212> DNA	
<213> Homo sapien	
<400> 233	
tcttctgaag accttcgcg actcttaagc tcgtgggtgg taaggcaaga ggagcggtgg	60
taaggcaaga ggagcggtgg taaggcaaga ggagca	96
<210> 234	
<211> 313	
<212> DNA	
<213> Homo sapien	
<400> 234	
tgtaagtgcg gcagtgtgat gataaaactt gaatggatca atagttgctt cttatggatg	60
agcaaaagaaa gtagttctt gtatggaa ctgtctctgg caaaaatgct gtgaacgttg	120
ttgaaaagac aacaaaagagt ttagatgtt acataaattt agaatagtagc ataaacttag	180
aatagtagat aaacttagta cataaataat gcacgaagca ggggcagggc ttgagagaat	240
tgacttcaat ttggaaagag tatctactgt aggttagatg ctctcaaaaca gcatcacact	300
gctcgactta caa	313
<210> 235	
<211> 550	
<212> DNA	
<213> Homo sapien	
<400> 235	
aacgaggaca gatcctaaa aagaatgtt agtggaaaaa gtagaaaata agataatctc	60
caaagtccag tagcattatt taaacatttt taaaaatac actgataaaa attttgtaca	120
tttcccaaaa atacatatgg aagcacagca gcatgaatgc ctatggrrtt gaggatagg	180
gttgggagta gggatgggaa taaaggggaa aaataaaacc agagaggagt cttacatatt	240
tcatgaacca aggagtataa ttatttcaac tatttgatcc wgaagtccag aaagagtgg	300
ggcagaaggg ggagaagagg gcgaagaaac gttttggaa gaggggtccc asaagagaga	360
tttcgcgat gtggcgctac atacgtttt ccaggatgcc ttaagctctg caccctattt	420
ttctcatcac taatattaga ttaaaccctt tgaagacagc gtctgtggtt tctctacttc	480
agctttccct ccgtgtcttg cacacagtag ctgtttaca agggttgaac tgactgaagt	540
gagattattc	550

Sub A1

<210> 236  
 <211> 325  
 <212> DNA  
 <213> Homo sapien

<400> 236  
 tagactgact catgtccctt accagagtag ctagaattaa tagcacaagg ctctacaccc  
 aggaactcac tattgaatac ataaatggaa ttattcagc cttaaaaagt ttggaggaa 60  
 attctgacat atgctaaac atggatgaaac cttgaagact ttatgataag taaaagaagc 120  
 cagtcataaa agaaaaataa ttgcatttattt gaggtaacca gagtagtcaa 180  
 tttcatagaa acacaaaataa gaatgggtt tgccagggtt tttgaggaaa agggatgac 240  
 aagtttagggg acatgagtca ttctaa 300  
 325

<210> 237  
 <211> 373  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(373)  
 <223> n = A,T,C or G

<400> 237  
 tagactgact catgtccctt atctactcaa cattttccact tgaagtctga taggcatttc  
 agacttatct tggccaaag caaactctttt atttttttc atcctagttt ttatatttttg 60  
 tgctgtctta cccatctcaa aagagtggca aaatccacca agttgctgaa acagaaatct 120  
 aagaaaatatac cttgattttt cttttttccca tctacttccac ttcttaattca ttagtaata 180  
 atctgtttca gaaaacccaaa cacctcatgt tctcactcat aaggggggagt tgaacaatga 240  
 gaacacacag acacagggag gggAACATCA cacaccacgg cccgtcaggg agtangggac 300  
 atgagtcagt cta 360  
 373

<210> 238  
 <211> 492  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(492)  
 <223> n = A,T,C or G

<400> 238  
 tagactgact catgtccctt ataatgctcc caggcatcag aaagcatctc aaactggagc  
 tgacaccatg gcagagggtt caggttaagtc acaaaagggtt tcctaaagaa ttggccctca 60  
 atatcagagt gattagaaga agtggacaga gctacccaaag ttaaacatatac gcgagataaa 120  
 aaaaatatacg cacttgtaa cacacactac aggaggaaaa taaggaacat aatacgatata 180  
 tggcttattt tgatgatgaa gaacctctt anaagaaaac ataacccaaag aaacaaagaa 240  
 aattcctgcn aatgtttat gctatagaag aaattaacaa aaacatatac tcaatgaatt 300  
 cagaaaagtt agcaggtcan aagaaaacaa atcaaagacc agaataatcc catttttagat 360  
 420

*Sub A1*

tgtcgagtaa	actanaaacag	aaagaataacc	actggaaatt	gaattcctac	gtangggaca	480
tgantcantc	ta					492
<210> 239						
<211> 482						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(482)						
<223> n = A,T,C or G						
<400> 239						
tggaaagtat	ttaatgatgg	gcaacttgct	gtttaacttcc	tacatatccc	atcatcttct	60
gtattttttt	aaataacttt	tttttgatt	tttaaagtaa	ccttattctg	agaggttaaca	120
tggattacat	acttctaagc	cattaggaga	ctctatgtta	aaccaaaagg	aaatgttact	180
agatcttcat	ttgatcaata	ggatgtgata	atcatcatct	ttctgctcta	atggaaaagt	240
actanaaaca	tggaaccata	atcttagatg	aacaacgtta	gaatttgcac	taattctacg	300
gaatttca	aattcggcaa	atgtcggca	gtgacacaac	atttcatgac	ggggacgcac	360
ctaccaactt	ctggcgataa	gggccaccct	ccctctgtta	cttacagtcc	catttcatac	420
acagtcttg	attaaatatt	cacattttt	ctctacctaa	agacctcaa	gaccagtacg	480
ta						482
<210> 240						
<211> 519						
<212> DNA						
<213> Homo sapien						
<220>						
<221> misc_feature						
<222> (1)...(519)						
<223> n = A,T,C or G						
<400> 240						
tgtatcgacg	tagtggtctc	cccatgtgat	agtctgaaat	atagcctcat	gggatgagag	60
gctgtcccc	agcccgacac	ccgtaaaggg	tctgtctga	ggtggttag	taaaagagga	120
aaggccttca	gttgagatag	aggaaggca	ctgtctccctg	cctgcocctg	ggaactgaat	180
gtctcggtat	aaaacccat	tgtacattt	ttcaattctg	agataggaga	aaaaccaccc	240
tatggcgaaa	ggcgagacat	gttggcagca	atgtgcctt	gttatgcctt	actccacaga	300
tgtttggcg	gagggaaaca	taaatctggc	ctacgtgcac	atccaggcat	agtacctccc	360
tttgaactta	attatgacac	agattcctt	gctcacatgt	tttttgctg	accttcct	420
tattatcacc	ctgctctcct	accgcattcc	ttgtgctgag	ataatgaaa	taatatcaat	480
aaaaacttga	nggaactcgg	agaccactac	gtcgataca			519
<210> 241						
<211> 771						
<212> DNA						
<213> Homo sapien						
<220>						

*Salv AI*

<221> misc\_feature  
 <222> (1) ... (771)  
 <223> n = A, T, C or G

<400> 241

tgtatcgacg tagtgtctc cactccgccc ttgacggggc tgctatctgc cttccaggcc 60  
 actgtcacgg ctcccggtt gaagtcaattt atgagacaca ccagtgtggc cttgttggct 120  
 tgaagctcct cagaggaggg tgggaacaga gtgaccgagg gggcagcctt gggctgaccc 180  
 aggacggtca gcttggcttcc tccgccaaac acgagagtgcc tgctgcttgtt atatgagctg 240  
 cagtaataat cagcctcgta ctcagcctgg agcccgagaa tggtcaggga gggcgtgttg 300  
 ccanacttgg agccagagaa gcgattagaa acccctgagg gccgattacc gacctcataa 360  
 atcatgaatt tgggggcttt gcctgggtgc tgggttacc angagacatt attataacca 420  
 ccaacgtcac tgctgggtcc antgcaggaa aatgggttga tcnaactgtc caagaaaacc 480  
 actacgtcca taccatcca ctaattgccc gcccctgca ggttcaacca tattggggaa 540  
 naactcccn ccggcgtttt ggattgnat naaccttga aatttttcc tattanttg 600  
 cccccctaaaaa taaaccnttg ggcnttaatc cattgggtcc atancttntt tncccggttt 660  
 ttaaaaanttg ttatcccgcc cncccnattt cccccccaaac tttccaaaac ccgaaaccnt 720  
 tnaaatttnt tnaaaccntg ggggttcccc nnaattnnan ttnaancntnc c 771

<210> 242

<211> 167

<212> DNA

<213> Homo sapien

<400> 242

tgggcacccat caatatcggtt ctcatcgata acatcacgct gctgatgctg ctgttgctgg 60  
 tcctctctatg gaacctctgg atttcaat tctttggatgatttcatccaa attatctgcc 120  
 tcctctcttt tcctccttt tctaaggatct tctggatcaa gcggtca 167

<210> 243

<211> 338

<212> DNA

<213> Homo sapien

<400> 243

ttgggcacccat tcaatatctt ctgatctaaa tagtgtggtt tgaggccctt tgggttggc 60  
 taaaaatcct tggcaagatg caatctccac tttacaatag aggtaaaaat cttacaatgg 120  
 atattcttga caaagcttagc atagagacag caatttaca caaggttattt ttacacctgtt 180  
 taataacagt ggtttccata caccatagg gtgccacca gggaggatg cacagttgca 240  
 gaaacaaatt aagatactga agacaacact acttaccatt tcccgatatacg ctaaccacca 300  
 gttcaactgt acatgtatgt tcttatgggc aatcaaga 338

<210> 244

<211> 346

<212> DNA

<213> Homo sapien

<400> 244

tttttggctc ccatacagca cactctcatg ggaaatgtct gttctaaggat caaccataa 60  
 tgcaaaaaatc atcaatatac ttgaagatcc ccgtgttaagg tacaatgtat ttaatattat 120  
 cactgataca attgatccaa taccagttt agtctggcat tgaatcaaact cactgtttt 180

*Sub A1*

gttgtataaaa aagagaaaata tttagcttat attaagtac catattgtaa gaaaaaaagat	240
gcttatctt acatgtctaaa atcatgatct gtacattggc gcagtgaata ttactgtaaa	300
agggaagaag gaatgaagac gagctaagga tattgaaggt gcccaa	346
<210> 245	
<211> 521	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1) ... (521)	
<223> n = A, T, C or G	
<400> 245	
accaatccca cacggatact gagggacaag tataatcatcc catttcatcc ctacagcagc	60
aacctcatga ggcaggagtt attagtccca ttttacagaa gagggaaactg agacttaggg	120
agatcaagta atttgcccaag gtgcacaaat tagtgataga gccagggctt gaagcgacgt	180
ctgtcttaag ccaatgaccc ctgcagattt ttagagcaac tggtctccac aacagtgtaa	240
gcctcttgct anaagcttag gtccacaagg gcagagattt ttgtctgttt tgctcattgc	300
tccttccca ttgcttagag cagggtctgc cacaancag gttctcaatg catagttatt	360
aaatgtatat aagagcaaac atatgttaca gagaactttc tgtatgttg tcacttacat	420
gaatcacctg tganatgggt atgcttggc cccantgttg cagatnaaga tattgaangt	480
gcccaaatca ctanttgcgg gcgcctgcan gtcancata t	521
<210> 246	
<211> 482	
<212> DNA	
<213> Homo sapien	
<220>	
<221> misc_feature	
<222> (1) ... (482)	
<223> n = A, T, C or G	
<400> 246	
tggaaccaat ccaaataccca atcaatgata gactggataa agaaaatttg gcacatgttc	60
accatgaaat actatgcagc cataaaaaag gatgagttca tatccttgc agggacatgg	120
atgaagctgg agaccatcat tctcagcaaa ctaacaaggg aacagaaaac caaacactgc	180
atgttctcac tcttaagtgg gagctgaaca atgagaacac atggadacag ggaggggaac	240
atcacacagt gggcctgct ggtggtagg ggtctagggg agggatagca ttaggagaaaa	300
tacctaattgt agatgacggg ttgatgggtc cagcaaacca ccatgacacg tgtataccta	360
tgtaacaaac ctgcatgttc tgcacatgta ccccagaact taaaagtgtta ataaaaaaat	420
taagaaaaaaa gttaagtatg tcataagatac ataaaaatatt gtanatattt aaggtgccccaa	480
<210> 247	
<211> 474	
<212> DNA	
<213> Homo sapien	

SubstA1

<220>  
 <221> misc\_feature  
 <222> (1) ... (474)  
 <223> n = A, T, C or G

<400> 247

ttcgatacag gcacagagta agcagaaaaa tggctgtgg ttaaccaagt gagtacagtt 60  
 aagtgagaga gggcgagaga agacaaggc atatgcaggg ggtgattata acaggtggtt 120  
 gtgctggaa gtgagggtac tcggggatga ggaacagtga aaaagtggca aaaagtggta 180  
 agatcagtga attgtacttc tccagaattt gatttctggn ggagtcaa atactatccag 240  
 tttgggtat catangccaa cagttgaggt ataggaggtt gaagtcncag tggataatt 300  
 gaggttatga angttttggt actgactggt actgacaang tctgggtat gaccatggga 360  
 atgaatgact gtanaagcgt anaggatgaa actattccac ganaaagggg tccnaaaact 420  
 aaaaannnaa gnnnnngggg aatattattt atgtggatat tgaangtgcc caaa 474

<210> 248  
 <211> 355  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (355)  
 <223> n = A, T, C or G

<400> 248

ttcgatacag gcaaacatga actgcaggag gggtgtgacg atcatgatgt tgccgatgg 60  
 ccggatggnc acgaagacgc actggancac gtgttacgt cttttgctc tggatggc 120  
 cctgagggga cgcaggaccc ttatgaccct cagaatcttc acaacgggag atggcactgg 180  
 attgantccc antgacacca gagacacccc aaccacccn atatcantat attgatgtag 240  
 ttccctgtaga nggccccctt gtggagggaa gctccatnag ttggcatct tcaacaggat 300  
 ctcaacagtt tccgatggct gtgatggca tagtcatat taacntgtn tcgaa 355

<210> 249  
 <211> 434  
 <212> DNA  
 <213> Homo sapien

<400> 249

ttggatttgtt cctccaggag aacaaggggaa aaaaggtgac cgagggctcc ctgaaactca 60  
 aggtatctca ggagcaaaag gggatggggg aattcctgtt cctgtgtc ccttaggtcc 120  
 acctggtcct ccaggcttac caggtcctca aggccaaag ggtaaacaag gctctactgg 180  
 acccgtggc cagaaagggtg acagtggctt tccaggccct cctgggcctc caggtccacc 240  
 tggtaagtc attcagccctt taccaatctt gtcctccaaa aaaacgagaa gacatactga 300  
 aggcatgcaa gcagatgcag atgataatat tcttgattac tcggatggaa tggaaagaaat 360  
 atttggttcc ctcaattccc taaaacaaga catcgagcat atgaaatttc caatgggtac 420  
 tcagaccaat ccaa 434

<210> 250  
 <211> 430  
 <212> DNA

SubA1

<213> Homo sapien  
 <220>  
 <221> misc\_feature  
 <222> (1) ... (430)  
 <223> n = A, T, C or G  
 <400> 250  
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 tcactagtta ttattatata ttttattttt gagatgaagt ctcgctttgt ctcccaggct  
 ggagagcggt ggtgcgatct tggctctctg caaccccccgc ctcaagcaat tctcctgtct  
 tagcctcgcg ggttagatgga attacaggcg cccacccgcca tgcccaacta atttttttgt  
 gtcttcagta gagacagggtt ttcgcctatgt tgggcaggct ggtcttgaac tcctgacctc  
 nagtgatctg ccctcctcg cctcacaag tgctgaaatt acaggcatgg gctgctgcac  
 ccagtcaact tctcactagt tatggcctta tcattttcac cacattctat tgcccaaaa  
 aaaaaaaaaan 60  
 120  
 180  
 240  
 300  
 360  
 420  
 430  
 <210> 251  
 <211> 329  
 <212> DNA  
 <213> Homo sapien  
 <400> 251  
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 ggagtctgtg ccgaggtgca gctgrtgca gctggagcag aggtaaaaaa gtccggggag  
 tctctgaaga tctcctgtaa gggttctgga tacaccttta agatctactg gatgcctgg  
 gtgcgcctgtg tggccggaa aggccctggag tggatggggc tcatcttcc tggatgactct  
 gataccagat acagcccgctc ctccaaggc caggtcacca tctcagtcga taagtccatc  
 agcaccggct atctgcagtg gagtaccaa 60  
 120  
 180  
 240  
 300  
 329  
 <210> 252  
 <211> 536  
 <212> DNA  
 <213> Homo sapien  
 <400> 252  
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 caggctcc tcgtcttaacc aggcttctgg gacagtatta gaaaaggatg tctcaacaag  
 tatgttagatc ctgtactggc ctaagaagtt aaactgagaa tagcataaat cagaccaaac  
 ttaatggtcg ttgagacttg tgcctctggag cagctggat agggaaactt ttggcagca  
 agaggaagaa ctgcctggaa gggggcatca tgtaaaaaat tacaagggga acccacacca  
 ggcccccttc ccagctctca gcctagagta ttagcatttc tcagatagag actccacaact  
 tccttgctta gaatgtgcca ccggggggag tccctgtggg tggatgggct ctcagatgt  
 agagtggcat cctatcttct gtgtgcccac aggacccctgg cccgagactt agcaggtgaa  
 gtttctggtc caggcttgc ctttgactca ctatgtgacc tctggtgag taccaa 60  
 120  
 180  
 240  
 300  
 360  
 420  
 480  
 536  
 <210> 253  
 <211> 507  
 <212> DNA  
 <213> Homo sapien

Swf A1

<220>  
 <221> misc\_feature  
 <222> (1) ... (507)  
 <223> n = A, T, C or G

&lt;400&gt; 253

ntgttgcgat cccagtaact cgggaagctg aggcgggagg atcacctgag ctcaggaggt 60  
 tgaggccgca gtgagccggg accaccccac tacactccag cctggggcat agagttagac 120  
 cctccaagac agaaaagaaa agaaaggaag gaaaaggaa aggaaaagg aaaaggaaaa 180  
 gaaaaaggaa aaggaaaaaa caagacaaaa caagacttga atttggatct cctgacttca 240  
 attttatgtt ctttctacac cacaattcct ctgcttacta agatgataat ttagaaaccc 300  
 ctcgttccat tcttacagc aagcttgaag ttttgtcaag taattacaat aatagtaaca 360  
 aatttgaata ttatatgcoa ggtgttttc attcctgctc tcacttaatt ctcaccactc 420  
 tcatataaaat acaatttgcgt ccgggtgtgg tggctcatgc ctgtatccc ggcactttgg 480  
 gagaccgagg tggcggats gcaacaa 507

&lt;210&gt; 254

<211> 222  
 <212> DNA  
 <213> Homo sapien

&lt;220&gt;

<221> misc\_feature  
 <222> (1) ... (222)  
 <223> n = A, T, C or G

&lt;400&gt; 254

ttggatttgtt cactgtgagg aagccaaatc ggatccgaga gtcttttct aaaggccagt 60  
 actggccaca ctttctcctg ccgccttccct caaagctgaa gacacacaga gcaaggcgct 120  
 tctgttttac tccccatgg taactccaaa ccataatggg ttagctnccc tgctcatctt 180  
 tccacatccc tgctattcag tatagtccgt ggaccaatcc aa 222

&lt;210&gt; 255

<211> 463  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 255

tggttgcgatc cataaatgct gaaatggaaa taaacaacat gatggggag gattaagttg 60  
 gggagggagc acattaagggt ggccatgaag tttgttggaa gaagtgactt ttgaacaagg 120  
 ccttgggttt aagagctgtat gagagtgtcc cagacagagg ggccactggg acaatagacg 180  
 agatgggaga gggcttggaa ggtgtcgaa ataggaagga gtttggcttg gtatgagtct 240  
 agtgaacaca gaggcgagag gcccctgggg gtgcagctgg agatgtatgc agaataacat 300  
 taggcccctgt gggggactgt agactgtcag caataatcca cagtttggat tttattctaa 360  
 gagtgtatggg aagccgtgga aagggggtta agcaaggagt gaaattatca gatttacagt 420  
 gataaaaaata aattggtctg gctactgggg aaaaaaaaaaaa aaa 463

&lt;210&gt; 256

<211> 262  
 <212> DNA  
 <213> Homo sapien

Sub A1

<400> 256  
 ttggattggt caacctgctc aactctacyt ttccctccttc ttccctaaaaa attaatgaat 60  
 ccaatacatt aatgcggaaa cccttgggtt ttatcaatat ttctgttaaa aagtattatc 120  
 cagaactgga cataatacta cataataata cataacaacc ccttcataatc gatgcaaaca 180  
 tctattaata tagcttaaga tcactttcac ttacagaag caacatcctg ttgatgttat 240  
 tttgatgttt ggaccaatcc aa 262

<210> 257  
 <211> 461  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(461)  
 <223> n = A, T, C or G

<400> 257  
 gnggnnnnnn nnncattcg actngttcc cttgggtancc ggtcgacatg gccgcggat 60  
 taccgctgtt nnctgggggt gtatggggga ctatgaccgc ttgttagctgg ggggttatgg 120  
 gggactatga ccgtttagt mtggkgtgt atggggact atgaccgctt gtcgggtgtt 180  
 cggataaacc gacgcaaggg acgtgatcga agctgcgttc ccgtctttc gcatcggttag 240  
 ggatcatgga cagcaatatac cgcattcgc tgaaggcggtt cgaccatcgc gtgtcgatc 300  
 aggcgaccgg cgacatcgcc gacaccgcac gccgtaccgg cgcgctcatac cgccgtccga 360  
 tcccgcttcc cacgcgcatac gagaagttca cggtaaccgg tggcccgac gtgcacaaga 420  
 agtcgcgca gcaagttcgag gtgcgtaccc acaagcggtc a 461

<210> 258  
 <211> 332  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(332)  
 <223> n = A, T, C or G

<400> 258  
 tgaccgcttg tagctggggg tttatggggg actacgaccg cttgttagctg ggggttatg 60  
 ggggactatg accgcttgc gctgggggt tatggggac tatgaccgt ttttagctggg 120  
 ggtgtatggg ggactaggac cgcttgc tgggggtgtt tggggacta tgaccgctt 180  
 tagctggggg tttatggggg actacgaccg cttgttagctg ggggttatg ggggactatg 240  
 accgcttgc nctgggggt tatggggac tatgaccgt tttgtctgc gggggatggg 300  
 aggagagttt tgggtggaa aaaaaaaaaaa aa 332

<210> 259  
 <211> 291  
 <212> DNA  
 <213> Homo sapien

5WbA1

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<220>
<221> misc_feature
<222> (1)...(291)
<223> n = A,T,C or G

<400> 259
taccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 60
gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt gaccgcttgt 120
gaccgcttgt gaccgcttgt nacnnggggt gtctggggga ctatgannga ntgtnactgg 180
gggtgtctgg ggnctatga nnganttna cnnggggtgt ctggggact atganngact 240
gtgcnnctg gggatcnga ggagantnngat ggttngggan a 291

<210> 260
<211> 238
<212> DNA
<213> Homo sapien

<400> 260
taagagggtta ctggttaaaa tacagggaaat ctggggtaat gaggcagaga accaggatac 60
tttgggtca gggatgaaaa ctagaatttt tttctttttt tttgcctgag aaacttgctg 120
ctctgaagag gcccatgtat taattgtttt gatcttcctt ttcttacagc ccttcaagg 180
gcagagccct ctttatcctg aaggaatttt atccttagct atagttatgtta ccctctta 238

<210> 261
<211> 746
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(746)
<223> n = A,T,C or G

<400> 261
ttgggcacct tcaatatcaa tagctaacat ttatttgatgt tttatcgat cataaaacac 60
tgttctaaacgt actaatttcat ttaatgctca taatcacttt agaagggtggg 120
tactagtatt agtctcattt acagatgcaa catgcaggca cagagaggta aattaacttg 180
cccaaggtaa cacagctaaag aaatagaaaaa aatattgaat ctggaaagtt gggcttctgg 240
gtaaaccacaca gagtttcaa tgagcctggg gcctcactca gtttgctttt acaaagcgaa 300
tgagtaacat cacttaattt agtgatgttgg ccaaattggag gtcagctacg agtttctgct 360
gttcttgcag tggactgaca gatgtttaca acgtctggcc atcagtwaat ggactgatta 420
tcattggaw gtgggtggc tgaatgttgg ccagtgaagt ttattcawgc catatttta 480
tgtttagat gactttggc tggccttagg gcaagctctg tctgscacgg aacacagaat 540
wacacaggga cccctcaat ttctgggtgt gctagaacca tgaaccatgt gttggggaa 600
caagcggtca aaacctaagt gcgcccggt ggcagggtcc acccatatgg ggaaaactcc 660
cnacgcgttt ggaatgcctn agctngaaatt attctaang ttgtccncnt aaaattagcc 720
tgggcgttaa tcangggtn naagcc 746

<210> 262
<211> 588
<212> DNA

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<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(588)
<223> n = A,T,C or G

<400> 262
tgaccgcttg tcatctcaca tggggtcctg cacgctttg cctttagg aaacctgaca 60
tttgtctgtt tcttccttct ctttccttc ccatatcctc ctaatttacg tttgacttgt 120
ttgctgagga ggcaggagct agagactgct gtgagctcat aggggtggga agtttatcct 180
tcaagtcccg cccactcattc actgcttctc accttcccct gaccaggctt acaagtgggt 240
tcttgcctgc tttcccttgg gacccaaaca gcccctgtaa tgagtgtgca tgactctgac 300
agctgtggac tcagggtctt tggctacagc tgccatgtaa aatatctcat ccagttctcg 360
caaattgtta aaataaaccac atttcttaga ttccagtagc caaatcatgt cttaacgaa 420
tgctcctcac acccagaagt ggcacaataa ttcttggggaa attattactt tttttttct 480
ctctntnnnc gnnngnnnnng gnnngnccag gaattaccac nttggaagac ctggccngaa 540
tttatttatan aggggagccg attnttttc ctaacacaaa gcgggtca 588

<210> 263
<211> 730
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature
<222> (1)...(730)
<223> n = A,T,C or G

<400> 263
tttttttttt tttggcctga gcaactgaaa ttatgaaatt tccatatact caaaagagta 60
agactgcaaa aagattaaat gtaaaatgt tcttgtatac agtaatgttt aagataaccta 120
ttanatttat aaatggaaaa tttagggcatt tggatataca agttgaaaat tcaggagtga 180
ggttgggctg gctgggtata tactgaaaac tgcgtgtaca cagatgacat ctaaaaccac 240
aaatctggtt ttattttagc agtgatatgt gtcacttcca caaaagcctt cccaattggc 300
ctcagcatac acaacaagtc acctccccac agccctctac acataaacaa attccttagt 360
ttagttcagg aggaaatgctg ccctttctt tccgctctag gtgaccgcaa ggcccagttc 420
tcgtcaccaa gatgttaagg gaagtctgcc aaagaggcat ctgaaaggaa ataaggggaa 480
tgggagtgac cacaaaggaa agccaaggan aaactttggg gaccgttct agancctgg 540
catttcaccaa caaaactcng gaacaaacct tgcgtcatca atcatttaag cccttcgttt 600
ggannagact ttctgaactg ggcgctgaac ataancctca ttgaatgtct tcacagtctc 660
ccagctgaag gcacacccctg ggcgctgaagg ggaatcttcc aggtcctcaa nacagggctc 720
gcccttgnc 730

<210> 264
<211> 715
<212> DNA
<213> Homo sapien

<220>
<221> misc_feature

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Sub A1

&lt;222&gt; (1)...(715)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 264

tttttttttt tttggccagt atgatagtct ctaccactat attgaagctc ttaggtcatt	60
tacacttaat gtggttatag atgctgtga gcttacttct accaccctgc tatttctccc	120
gtctctttt tggccctttt ctcttctttt cctcccttat tttataattg aatttttttag	180
gattctattt tatatagatt tatcagctat aacactttgt attctttgt tttgtgggtc	240
ttctgtcatt tcaatgtgca tcttaaactc atcacaatct atttcaaat aatatcatat	300
aaccttacat ataatgtaaat aatctaccac catatatttc catttctccc ttccatccta	360
tgtntgtcat atttttcccttataatgt tttaaagaca taatagtata tgggagggtt	420
ttgcttaaaa tgtgatcaat attccttcaa ngaaacgtaa aaattcaaaa taaatntctg	480
tttatttctca aatnnaccta atatttctca ccatntctna tacnttcaa gaatctgaag	540
gcattgggtt tttccggctt aagaacctcc tctaaagcac tctaaggcaga attaagtctt	600
ctgggagagg aattctccca agcttgggcc ttnanntgta ctccntnang gttaaanttt	660
ggccggggaaa tagaaattcc aagtttaacag gntantttt nttnnttn tcncc	715

&lt;210&gt; 265

&lt;211&gt; 152

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 265

tttttttttt ttcccaaca caaaggcacca ttatctttcc tcacaatttt caacatagtt	60
tgattcccat gaagaggtt tgatttctaa agaaaacatg gctactatac tatcaatcag	120
gtttaaatct ttttttttg agacggagtt ta	152

&lt;210&gt; 266

&lt;211&gt; 193

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)...(193)

&lt;223&gt; n = A,T,C or G

&lt;400&gt; 266

taaactccgt ccccttctta atcaatatgg aggctaccca ctccacattha ccttcttttc	60
aagggactgt ttccgtaact gttgtgggtt ttcacacgcca ggcttctaaa cctcttaaaa	120
ctccccaatt ctggtgccaa cttggacaac atgotttttt tttttttt ttttttttn	180
gagacggagt tta	193

&lt;210&gt; 267

&lt;211&gt; 460

&lt;212&gt; DNA

&lt;213&gt; Homo sapien

&lt;400&gt; 267

tgttgcgatc ccttaagcat ggggtgctatt aaaaaaatgg tggagaagaa aatacctgga	60
atttacgtct tatctttaga gattggaaag accctgatgg aggacgtgga gaacagcttc	120

ttcttgaatg tcaattccca agtaacaaca gtgtgtcagg cacttgctaa ggatcctaaa 180  
 ttgcagaag gatacaatgc tatggattc tcccaggag gccaatttct gagggcagtg 240  
 gctcagagat gcccatttcacc tcccatgatc aatctgatct cggttggggg acaacatcaa 300  
 ggtgttttgc gactccctcg atgcccagga gagagctctc acatctgtga cttcatccga 360  
 aaaacactga atgctggggc gtactccaaa gtgttcagg aacgcctctg gcaagccgaa 420  
 tactggcatg acccataaaa ggaggatgtg gatcgcaaca 460

<210> 268  
 <211> 533  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(533)  
 <223> n = A, T, C or G

<400> 268

tggtgcgatc cggttataga atagcgacgt ggtaatgagt gcatggcacg cctccgactt 60  
 accttcgccc gtggggaccc cgagtaacgt tacggcgtcg tcacttagag taccctctgg 120  
 acgcccggc gcgttcgatt taccggaaagc gcgagctgca gtgggcttgc gccccccggcc 180  
 aaattctttg gggggtttaa ggccggggg aatttgaggt atctctatca gtatgtagcc 240  
 aagttggAAC agtcgcccatt cccgaaatcg ctttcttga atccgcaccc cctccagcat 300  
 tgcctcattc atcaacactga aggcacgcat aagtgcgggt tttgtttca gcagctccac 360  
 tccataacta gcgcgctcgat cctcgatccgtt gtaacggccca ggtccgtgcg tgcaattcc 420  
 caactccgggt gagttgcgca tttcaagttt cggaaactgtt cgcctccacn atttggcatg 480  
 ttacacgcattt acacggata aactcgatccca gtaccggaa tggatcgca aca 533

<210> 269  
 <211> 50  
 <212> DNA  
 <213> Homo sapien

<400> 269

tttttttttt ttgcctgaa ttagctacag atccctctca caagcggtca 50

<210> 270  
 <211> 519  
 <212> DNA  
 <213> Homo sapien

<400> 270

tggtgcgatc caaataaccc accagcttct tgcacacttc gcagaagcca ccgtcccttg 60  
 gctgagtacgtac gtgaacggtc agtgcaagca gcccgtgccc agagcagagg tgcacgtgc 120  
 tgcacaccag ctcagggtcg acctcctccca gcaggatggaa caggatggag ctggcgatcg 180  
 tggccaccac ctcctggcac tcttccgaca gggacttcgg cagcttcgag cacatgggt 240  
 caaaaaggctc gaggatgttct ttctcgatct tgggtttgtc aatcagcttgc gtcacccct 300  
 tcaccaggaa ttacacaccc tcacagtaaa catcagactt tgctgggacc tgctgcttct 360  
 taatgggctc caccagttcc agggcaggaa tgacattctt ggaggccact ttggcggggaa 420  
 ccagagtctg catgggcattc tcttcacccatc catcacaagaa cccaaaccagc gcacagatct 480  
 ctttgggttg catgtgcattc atcatctggg atcggcaaca 519



ttttttttt ttggccaata cccttgcata acatcaatgt gaaaatcctc ggtaaaatac 60  
 tggcaaacca aatccagcag cacatcaaaa agcttatcca ccatgatcaa gtgggcttca 120  
 tccctggat gcaaggctgg ttcaacataa gaaaatcaat aaatgtatc catcacataa 180  
 acagaaccaa agaaaaaaac cacatgatta tctcaataga tgcagaaaag gccttgaca 240  
 aattcaacag cccttcatgc taaacactct taataaacta gatattgtatc gaatgtatct 300  
 caaaataata agagctattt atgacaaacc cacagccat atcatactga atgggcaaag 360  
 actgaaagca ttcccttga aaactggcac aagacaagga tgccctctc caccgctcct 420  
 attcaacata gtattggaag ttctggccag ggcaatcaag a 461

<210> 275  
 <211> 729  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(729)  
 <223> n = A,T,C or G

<400> 275

ttttttttt ttggccaaca ccaagtcttc cactgggag gttttattat gttttacaac 60  
 catgaaaaca taggaagggtg gctgttacag caaacatttc agatagacga atcggccaag 120  
 ctccccaaac cccaccttc cagccttcc cacacgtctc ccanagattt ttgccttca 180  
 cttgcaaatt canggatgtt ggaagtngac attnnagtn gcnggaaccc catcagtgaa 240  
 ncantaagca gaantacgat gactttgana nacanctgat gaagaacacn ctacnganaa 300  
 ccctttctnt cgtgttanga ttcnngtcc ntcaactatg cggccccctg cnggtccacc 360  
 atttgggaga actcccccn cgttggatcc ccccttgagt ntccattct ngtccccan 420  
 accngncttg ngnncantn cnncctcna ccntgttcc ctgnngtnaa aatnnngttt 480  
 nccgcnccc naattcccac ccnaatcaca gcgaancnng aaggccttcn naagtgtta 540  
 angcccnng gtttccctnt ntanttgacg cttaccctcc cnettnnnnt tncngttgg 600  
 tcgcgcctg gncncgcctn gttcctctt nnggnacaa cctngntcnn nggcncntcn 660  
 nnncntttcc tnnnactagc tngcctntcc ncncgnggn ncanngcaca ttncncnnac 720  
 tntgtnncc 729

<210> 276  
 <211> 339  
 <212> DNA  
 <213> Homo sapien

<400> 276

tgacctgaca ttagtagat acttaataaa tatttgcata atgaatggat gaagtggagt 60  
 tacagagaaa aatagaaaag tacaattgt tgcgtgtt ttgaaggaaa attatgtatct 120  
 ttcccaaagt tctgacttc ttctaaagaca gggtagtat ctccatataat aattttactt 180  
 gctttgaaa atcaaattgtatcataatctt tagattgtata atttattttatc actggctata 240  
 aactattaaatg tgcgtgttatacattt aatctcattt tccaccttgc gtgatatac 300  
 tatgttaggtt tgcgtgttatacattt tccaccttgc gtgatatac 339

<210> 277  
 <211> 664  
 <212> DNA  
 <213> Homo sapien

SubhAI

<220>  
 <221> misc\_feature  
 <222> (1) ... (664)  
 <223> n = A, T, C or G  
  
 <400> 277  
 tgacctgaca tccataacaa aatcttctc cattatattc ttctagggga atttcttga 60  
 aagcatccaa agggaaacaaa ttagtggtaag accgtgccaa gtggggagca gacaccaaag 120  
 taagaccaca gatTTTACAT tcaacaggtt gctcacagta ctttgcggca cactgtggc 180  
 agaaatagcc tcctaATgtt agccctggct cagtattgcc atccaaATgc gccatgctga 240  
 aagagggttt tgcATCCTGG tcagatnaag aagcaatggt gtgctgagga aatcccatac 300  
 gaataagtga gcattcagaa cttgagctag caggaggagg actaagatga tttgtgagca 360  
 actctttgtt atggctttca tctaaaataa catggtacgt gccaccagt tcacgagcaa 420  
 gtacagtgc aacgcgaact tctgcagaca atccaataac agataactcta attttagctg 480  
 cctttaggtt ctggattaaa tataaaatat tagatggatc gcaagtgtt agntgctaa 540  
 aagatgatta gtacttctcg acttgtatgt ccaggcatgt ttgtttaan tctgccttag 600  
 nccctgccta gggaaatttt taaagaagat ggctctccat gttcanggtc aatcacnaat 660  
 tgcc 664

<210> 278  
 <211> 452  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1) ... (452)  
 <223> n = A, T, C or G  
  
 <400> 278  
 tgacctgaca tttaggaaaga gcacacacact ctgaaattcc tttagtttag aagggcattt 60  
 gacacagagt gggcctctga taattcatga aatgcattct gaagtcatcc agaatggagg 120  
 ctgcaatctg ctgtgctttg ggggttgct cactgtgctc ctggatatca cacaAAAGCT 180  
 gcaatccttc ttcttcaact aacattttgc agtatttgct gggattttta ctgcagacat 240  
 gatacatagc ccatagtgcc cagagcttac cctctgggtt agagaagttt ccaaggagcg 300  
 gggaaaatgt ctggaaagat ctataggta ccaatgttcatcttacaa ttggaaacttg 360  
 gccaattctg tatggttgca tgcagatctt ggagaagagt acgccttgg aagtcaacggg 420  
 atatccaaan ctgtctgtca gatgtcaggt ca 452

<210> 279  
 <211> 274  
 <212> DNA  
 <213> Homo sapien

<400> 279  
 tttttttttt ttccggcaagg caaatttact tctgcAAAG ggtgctgctt gcactttgg 60  
 ccactgcgag agcacaccaa acaaagttagg gaagggttt ttatccctaa cgccgttatt 120  
 ccctggttct gtgtcgtgtc cccattggct ggagtcagac tgcacaatct acactgaccc 180  
 aactggctac tttttaaat tgaatatgaa taatttaggtt ggaaggggga ggctgtttgt 240  
 tacggtacaa gacgtgtttt ggcatgtca gtc 274

Sub A1

<210> 280		
<211> 272		
<212> DNA		
<213> Homo sapien		
<400> 280		
tacctgacat ggagaataa cttgttagtat tttgcgtgca atggaatact atatgagggt	60	
gaaaatgaat gaactagcaa tgcgtgtatc aacatgaata aatccccaaa acataataat	120	
gttgaatgga aaaggtgagt ttcagaagga tatatatgcc ctctaaatcc atttatgtaa	180	
acctttaaaa aactacattha tttatggtca taagtccatc cagaaaatat taaaaaacct	240	
acatgggatt gataactact gatgtcaggt ca	272	
<210> 281		
<211> 431		
<212> DNA		
<213> Homo sapien		
<220>		
<221> misc_feature		
<222> (1) ... (431)		
<223> n = A, T, C or G		
<400> 281		
tttttttttt ttggccaata gcatgattta acattggaa aaagtcaaata gagcaatgcg	60	
aatttttatg ttctcttgaa taatcaaaag agtaggcaac attgggtcct cattcttgaa	120	
tagcattaaat cagaaaaat tgcataccct ctggcctcct tagatgttaggt gtgtctctc	180	
aaatatataca tagtcccaca gtttatttca tgtatatttt ctgcctgaat cacatagaca	240	
tttgaatttg caacgcctga tgtaaatata taaattctta ccaatcagaa acatagcaag	300	
aaattcaggg acttggtcat yatcagggta tgacagcana tccctgtara aacactgata	360	
cacactcaca cacgtatgca acgtggagat gtcgcyytww kkktwywcwm rmrycrwcn	420	
aatcacttan n	431	
<210> 282		
<211> 98		
<212> DNA		
<213> Homo sapien		
<400> 282		
attcgattcg atgcttgagc ccaggagttc aagactgcag tgagccactg cacttcaggc	60	
tggacaacag agcgagtccc tgtgccaaaa aaaaaaaaaa	98	
<210> 283		
<211> 764		
<212> DNA		
<213> Homo sapien		
<220>		
<221> misc_feature		
<222> (1) ... (764)		
<223> n = A, T, C or G		

SubA 1

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Sub-A1

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tatcatagcc tcaaga 60  
120  
180  
196

<210> 288  
<211> 199  
<212> DNA  
<213> Homo sapien

<400> 288  
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tagtactga agattcaagt gaccgagatg ctagcccttg gttcaagtg atccctctcc  
cagagtgcac tggactgaa 120  
180  
199

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<211> 182  
<212> DNA  
<213> Homo sapien

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gtattataat ctagggacc accattatat atgtggtcca tcattggcca aaaaaaaaaaa  
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180  
182

<210> 290  
<211> 1646  
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<213> Homo sapien

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780  
840  
900  
960

*Sub A*

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<210> 291  
<211> 1851  
<212> DNA  
<213> Homo sapien

<400> 291

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gcacgagttt	tactacttct	gaattccat	tggcagaggc	cagatgtaga	gcagtccct	780
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Sub A1

<210> 292  
<211> 1851  
<212> DNA  
<213> Homo sapien  
  
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ttgctgtttt cagaagagat tttaacatc tgttttctt tgttagtcaga aagtaactgg 240  
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cagcaagttt gagagcgtt cttccatatc tatccagcgc atttaaattt gctttttctt 420  
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<212> DNA  
<213> *Homo sapien*

<400> 293

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ctactgcata cctttatcag agctgtcctc tttttgttgt caaggacatt aagttgacat 480  
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aaaaaaaaa 668

<210> 294  
<211> 1512  
<212> DNA  
<213> Homo sapien

<400> 294

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<210> 295
<211> 1853
<212> DNA
<213> Homo sapien
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<400> 295

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Sub A1

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<210> 296  
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 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 296

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ccatcgtgca	tgcattttc	atttcctgca	tttcttcctc	cctggatgga	cagggggagc	780
ggcaagagca	acgtggcac	ttctggagac	cacaacgact	cctctgtgaa	gacgcttggg	840
agcaagaggt	gcaagtggtg	ctgccactgc	ttccctgt	gcaggggagc	ggcaagagca	900
acgtggtcgc	ttggggagac	tacgatgaca	gccccttcat	ggatcccagg	taccacgtcc	960
atggagaaga	tctggacaag	ctccacagag	ctgcctgg	ggtaaagtc	cccagaaagg	1020
atctcatct	catgctcagg	gacacggatg	tgaacaagag	ggacaagcaa	aagaggactg	1080
ctctacatct	ggcctctgca	aatggaaatt	cagaagtagt	aaaactctgt	ctggacagac	1140

*Sub A*

gatgtcaact	taatgtcctt	gacaacaaaa	agaggacagc	tctgacaaag	gccgtacaat	1200
gccaggaaga	tgaatgtgcg	ttaatgtgc	tggAACATGG	caactgatcca	aatattccag	1260
atgagtatgg	aaataccact	ctacactatg	ctgtctacaa	tgaagataaa	ttaatggcca	1320
aagcactgct	cttatacggt	gctgatatcg	aatcaaaaaa	caagcatggc	ctcacaccac	1380
tgctacttgg	tatacatgag	caaaaacagc	aagtggtaa	attttaatc	aagaaaaaaag	1440
cgaatttaaa	tgcgtggat	agatatggaa	gaactgctct	catacttgct	gtatgttgc	1500
gatcagaag	tatagtgcgc	cctctacttgc	agcaaaatgt	tgatgtatct	tctcaagatc	1560
tggaaagacg	gccagagagt	atgctgttgc	tagtcatcat	catgttaattt	gccagttact	1620
ttctgactac	aaagaaaaac	agatgttaaa	aatcttttct	gaaaacagca	atccagaaca	1680
agacttaaag	ctgacatcg	aggaagagtc	acaaaggctt	aaaggaagtg	aaaacagcc	1740
gccagaggca	tggaaacttt	taaatttaaa	ctttggttt	aatgtttttt	tttttgcct	1800
taataatatt	agatagtccc	aaatgaaatw	acctatgaga	ctaggctttg	agaatcaata	1860
gattctttt	ttaagaatct	tttggcttagg	agcggtgtct	cacgcctgta	atccagcac	1920
cttgagagggc	tgaggtgggc	agatcacgag	atcaggagat	cgagaccatc	ctggctaaaca	1980
cggtaaacc	ccatctctac	taaaaataca	aaaacttagc	tgggtgtgg	ggcggtgccc	2040
tgtatgtccc	gtactcagg	argctgagggc	aggagaatgg	catgaaccccg	ggaggtggag	2100
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ctcaaaaaaa	aaaaaaaaaa	aaaa				2184

<210> 297  
 <211> 1855  
 <212> DNA  
 <213> Homo sapien

<220>  
 <221> misc\_feature  
 <222> (1)...(1855)  
 <223> n = A,T,C or G

<400> 297

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cacgcgcac	ttgcacgcgc	ggcagcgct	tggctggctt	gtaacggctt	gcacgcgcac	120
gccgcggcc	cataaccgtc	agactggcct	gtaacggctt	gcaggccac	gccgcacgc	180
cgttaacggct	tggctgcct	gtaacggctt	gcacgtgc	gctgcacgc	cgttaacgc	240
ttggctggca	tgtacccgc	tggctggct	ttgcattttt	tgctkggct	ggcggtgkty	300
tcttgatttgc	acgcttcctc	cttggatkg	cgttccctcc	ttggatkgac	gttctyty	360
tcgcgttcc	ttgctggact	tgacctttt	tctgctgggt	ttggcattcc	tttgggtgg	420
gctgggtgtt	ttctccgggg	gggktkggcc	ttcctgggt	gggcgtggk	cgcggccagg	480
gggcgtgggc	tttccccggg	tgggtgtgg	ttttcctgg	gtgggggtgg	ctgtgtctgg	540
atccccctgc	tgggttggc	agggatttgc	tttttcttc	aaacagattt	gaaacccgga	600
gtaacntgt	agttttgtaa	actgggttgt	agacgcgtc	tgctgtact	actgtttctc	660
ctggctgtt	aaacgcagat	gtggctgagg	ttgattcaat	gcccgtgt	tctctgtga	720
agaagccatt	tggctctcagg	agcaagatgg	gcaagtgggt	cggactgt	tccctgtct	780
caggggggagc	ggcaagagca	acgtggcac	ttctggagac	cacaacgact	cctctgtaa	840
gacgcttggg	agcaagaggt	gcaagtgggt	ctgcccactg	tttcccctgc	tgcaagggag	900
cgccaagagc	aacgtggkcg	cttggggaga	ctacgtac	agcccttca	tggakcccag	960
gtaccacgtc	crtggagaag	atctggacaa	gctccacaga	gctgcctgg	gggttaaagt	1020
ccccagaaa	gatctcatcg	tcatgctcg	ggacactg	gtgaacaaga	rggacaagca	1080
aaagaggact	gctctacatc	tggcctctgc	caatggaa	tcagaagtag	taaaactcgt	1140
gctggacaga	cgatgtcaac	ttaatgtcct	tgacaacaaa	aagaggacag	ctctgacaaa	1200
ggccgtacaa	tgccaggaag	atgaatgtgc	gttaatgttg	ctggaaacatg	gcactgtatc	1260

*Sakai*

aaatattcca gatgagtatg gaaataccac tctacactat gctgtctaca atgaagataa 1320  
 attaatggcc aaagcactgc tcttatacgg tgctgatatacgaatcaaaaacaaggataa 1380  
 gatctactaa ttttatcttc aaaatactga aatgcattca ttttaacatt gacgtgtgtat 1440  
 agggccagtc ttccgtatgg aagactcaa gcataacttg aatgaaaata ttttgaatg 1500  
 acctaattat ctaagacttt atttaaata ttgttatttt caaagaagca tttagaggta 1560  
 cagttttttt ttttaatg cacttctggtaaatactttt gttgaaaaca ctgaatttgc 1620  
 aaaaggtaat acttactatt tttcaatttt tccctccttag gattttttc ccctaataatgaa 1680  
 tgtaagatgg caaaatttgc cctgaaatag gtttacatg aaaactccaa gaaaagttaa 1740  
 acatgtttca gtgaatagag atcctgtcc ttggcaagt tcctaaaaaa cagtaataga 1800  
 tacgaggtga tgcgcctgtc agtggcaagg tttaagatat ttctgatctc gtgcc 1855

<210> 298  
 <211> 1059  
 <212> DNA  
 <213> Homo sapien

<400> 298

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 ggcgttgrgg agactmcgat gacagygccct tcattggagcc caggtaccac gtccgtggag 180  
 aagatctgga caagctccac agagctgccc tggtggggta aagtcccccag aaaggatctc 240  
 atcgtcatgc tcagggacac tgaygtgaac aagarggaca agcaaaaagag gactgctcta 300  
 catctggcct ctgccaatgg gaattcagaa gtagtaaaac tcstgctgga cagacgatgt 360  
 caacttaatg tccttgcacaa caaaaagagg acagctctga yaaaggccgt acaatgccag 420  
 gaagatgaat gtgcgttaat gttgctggaa catggcactg atccaaatat tccagatgag 480  
 tatggaaata ccactctrca ctaygcrtc tayaatgaag ataaattaat ggccaaagca 540  
 ctgctcttat aygggtctga tatcgaatca aaaaacaagg tatagatcta ctaattttat 600  
 cttcaaaata ctgaaatgca ttcatttta cattgacgtg tgtaagggcc agtctccgt 660  
 atttggaaatc tcaagcataa cttgaatgaa aatattttga aatgacctaattatctaaga 720  
 ctttattttta aatattgtta ttttcaaga agcatttagag ggtacagttt tttttttta 780  
 aatgcacttc tggtaatac ttttggaa aacactgaat ttgtaaaagg taataacttac 840  
 tattttcaat ttttccctc ctaggattt tttccctaa tgaatgtaaat atgcaaaat 900  
 ttggccctgaa ataggtttta catgaaaact ccaagaaaag ttaaacaatgt ttcaatgt 960  
 agagatccctg ctcccttggc aagttcttaa aaaaacagtaa tagatacagag gtatgcgccc 1020  
 tgcgtggc aaggtttaag atatttctga tctcgtgcc 1059

<210> 299  
 <211> 329  
 <212> PRT  
 <213> Homo sapien

<400> 299

Met Asp Ile Val Val Ser Gly Ser His Pro Leu Trp Val Asp Ser Phe  
 1 5 10 15  
 Leu His Leu Ala Gly Ser Asp Leu Leu Ser Arg Ser Leu Met Ala Glu  
 20 25 30  
 Glu Tyr Thr Ile Val His Ala Ser Phe Ile Ser Cys Ile Ser Ser Ser  
 35 40 45  
 Leu Asp Gly Gln Gly Glu Arg Gln Glu Gln Arg Gly His Phe Trp Arg  
 50 55 60  
 Pro Gln Arg Leu Leu Cys Glu Asp Ala Trp Glu Gln Glu Val Gln Val

Sub A1

65	70	75	80
Val Leu Pro Leu Leu Pro Leu Leu Gln Gly Ser Gly Lys Ser Asn Val			
85	90	95	
Val Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr			
100	105	110	
His Val His Gly Glu Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp			
115	120	125	
Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp			
130	135	140	
Val Asn Lys Arg Asp Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser			
145	150	155	160
Ala Asn Gly Asn Ser Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys			
165	170	175	
Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala			
180	185	190	
Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly			
195	200	205	
Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr			
210	215	220	
Ala Val Tyr Asn Glu Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr			
225	230	235	240
Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu			
245	250	255	
Leu Gly Ile His Glu Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys			
260	265	270	
Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu			
275	280	285	
Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu			
290	295	300	
Glu Gln Asn Val Asp Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu			
305	310	315	320
Ser Met Leu Phe Leu Val Ile Ile Met			
325			

<210> 300  
 <211> 148  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(148)  
 <223> Xaa = Any Amino Acid

<400> 300

Met Thr Xaa Pro Ser Trp Ser Pro Gly Thr Thr Ser Val Glu Lys Ile			
1	5	10	15
Trp Thr Ser Ser Thr Glu Leu Pro Trp Trp Gly Lys Val Pro Arg Lys			
20	25	30	
Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Xaa Asp Lys			
35	40	45	

100

*Sub A1*

Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu  
50 55 60  
Val Val Lys Leu Xaa Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp  
65 70 75 80  
Asn Lys Lys Arg Thr Ala Leu Xaa Lys Ala Val Gln Cys Gln Glu Asp  
85 90 95  
Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro  
100 105 110  
Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Xaa Tyr Asn Glu Asp  
115 120 125  
Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser  
130 135 140  
Lys Asn Lys Val  
145

<210> 301  
<211> 1155  
<212> DNA  
<213> Homo sapien

<400> 301

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agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180  
atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240  
ggcgcttctg gagaccacga cgactctgtc atgaagacac tcaggaacaa gatgggcaag 300  
tgggtgtgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360  
ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420  
gacaagctcc acagagctgc ctggggggt aaagtcccc aaaaaggatct catcgtcatg 480  
ctcagggaca ctgacgtgaa caagaaggac aagaaaaaga ggactgtct acatctggcc 540  
tctgccaatg ggaattcaga agtagtaaaa ctctgtctgg acagacgtg tcaacttaat 600  
gtccttgaca acaaaaaagag gacagctctg ataaaggccg tacaatgtca ggaagatgaa 660  
tgtgcgttaa tggctgttgc acatggact gatccaaata ttccagatga gtatggaaat 720  
accactctgc actacgttat ctataatgaa gataaattaa tggccaaagc actgctctta 780  
tatgggtctg atatcgaatc aaaaaacaag catggcctca caccactgtt atttgggtgt 840  
catgagcaaa aacagcaagt cgtgaaattt ttaatcaaga aaaaagcgaa ttbaaatgca 900  
ctggatagat atggaaggac tgctctcata cttgtctgtat gttgtggatc agcaagtata 960  
gtcagccttc tacttgagca aatattgtat gtatcttc aagatctatc tggacagacg 1020  
gccagagagt atgctgttgc tagtcatcat catgtatggtact ttctgactac 1080  
aaagaaaaac agatgtctaaa aatctcttct gaaaacagca atccagaaaa tgtctcaaga 1140  
accagaaaata aataa 1155

<210> 302  
<211> 2000  
<212> DNA  
<213> Homo sapien

<400> 302

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aggagcaaga tggcaagtg gtgctgcgt tgcttccct gctgcaggga gagcggcaag 120  
agcaacgtgg gcacttctgg agaccacgac gactctgcta tgaagacact caggagcaag 180

Sub A1

atgggcaagt ggtgccgcca ctgcttcccc tgctgcaggg ggagtggcaa gagcaacgtg 240  
 ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300  
 tggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360  
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420  
 gacaagctcc acagagctgc ctgggggt aaagtccccca gaaaggatct catcgcatg 480  
 ctcagggaca ctgacgtgaa caagaaggac aagaaaaaga ggactgctct acatctggcc 540  
 tctgccaatg ggaattcaga agtagtaaaa ctcctgctgg acagacgtat tcaacttaat 600  
 gtccttgaca aaaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660  
 tggcggttaa tggcggttaa acatggact gatccaaata ttccagatga gtatggaaat 720  
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctt 780  
 tatggtgctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttgggtta 840  
 catgagcaaa aacagcaagt cgtgaaattt ttaatcaaga aaaaagcgaa tttaaatgca 900  
 ctggatagat atgaaaggac tgcttccata cttgctgtat gttgtggatc agcaagtata 960  
 gtcagccttc tacttgagca aatattgtat gtatcttctc aagatctatc tggacagacg 1020  
 gccagagagt atgcttttc tagtcatat catgtaattt gccagttact ttctgactac 1080  
 aaagaaaaac agatgctaaa aatctttt gaaaacagca atccagaaca agacttaaag 1140  
 ctgacatcg aggaagagtc acaaaggttc aaggcagtg aaaatagcca gccagagaaaa 1200  
 atgtctcaag aaccagaaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag 1260  
 aagcatgaaa gtaataatgt gggattacta gaaaacctga ctaatggtgt cactgctggc 1320  
 aatggtgata atggattat tcccaaagg aagagcagaa cacctgaaaa tcagcaattt 1380  
 cctgacaacg aaagtgaaga gtatcacaga atttgcgat tagttctga ctacaaagaa 1440  
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 tcagagggaaag agtcacaaaag gcttgaggc agtggaaaatg gccagccaga gctgaaaaat 1560  
 ttatggcta tcgaaagaaat gaagaagcac ggaagtactt atgtcgatt cccagaaaaac 1620  
 ctgactaatg gtgccactgc tggcaatgtt gatgatggat taattctcc aaggaagagc 1680  
 agaacacctg aaagccagca atttcctgac actgagaatg aagagtatca cagtgacgaa 1740  
 caaaatgata ctcagaagca attttgtgaa gaacagaaca ctgaaatatt acacgatgag 1800  
 attctgattt atgaagaaaaa gcagatagaa gtggttgaaa aatgaattc ttagcttct 1860  
 ctttagttta agaaagaaaaa agacatcttgc catgaaaata gtacgttgcc ggaagaaaatt 1920  
 gccatgctaa gactggagct agacacaatg aaacatcaga gccagctaaa aaaaaaaaaaa 1980  
 aaaaaaaaaaa aaaaaaaaaaa 2000

<210> 303  
 <211> 2040  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 303

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 aggagcaaga tggcaagtgt gtgctgcgt tgcttcccc gctgcaggga gagccggcaag 120  
 agcaacgtgg gcacccctgg agaccacgac gactctgcta tgaagacact caggagcaag 180  
 atgggcaagt ggtggccca ctgcttcccc tgctgcagg gggatggcaa gagcaacgtg 240  
 ggcgcttctg gagaccacga cgactctgct atgaagacac tcaggaacaa gatgggcaag 300  
 tggtgctgcc actgcttccc ctgctgcagg gggagcggca agagcaaggt gggcgcttgg 360  
 ggagactacg atgacagtgc cttcatggag cccaggtacc acgtccgtgg agaagatctg 420  
 gacaagctcc acagagctgc ctgggggt aaagtccccca gaaaggatct catcgcatg 480  
 ctcagggaca ctgacgtgaa caagaaggac aagaaaaaga ggactgctct acatctggcc 540  
 tctgccaatg ggaattcaga agtagtaaaa ctcctgctgg acagacgtat tcaacttaat 600  
 gtccttgaca aaaaaaagag gacagctctg ataaaggccg tacaatgcca ggaagatgaa 660  
 tggcggttaa tggcggttaa acatggact gatccaaata ttccagatga gtatggaaat 720  
 accactctgc actacgctat ctataatgaa gataaattaa tggccaaagc actgctctt 780

Sub A1  
 tatggtctg atatcgaatc aaaaaacaag catggcctca caccactgtt acttggtgt  
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 gccagagagt atgctgtttc tagtcatcat catgtatattt gccagttact ttctgactac  
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 atgtctcaag aaccagaaaat aaataaggat ggtgatagag aggttgaaga agaaatgaag  
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 cagcaattt ctgacactga gaatgaagag tttcacatgt acgaacaaaa tgatactcg  
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 gaaaagcaga tagaagtggt tgaaaaatg aattctgagc tttcttttag ttgtaaagaaa  
 gaaaaagaca tcttgcataaaatg aatagtagc ttgcggaaag aaattgccat gctaagactg  
 gagctagaca caatgaaaca tcagagccag ctaaaaaaaaaaaaaaa aaaaaaaaaaaa  
 840  
 900  
 960  
 1020  
 1080  
 1140  
 1200  
 1260  
 1320  
 1380  
 1440  
 1500  
 1560  
 1620  
 1680  
 1740  
 1800  
 1860  
 1920  
 1980  
 2040

&lt;210&gt; 304

&lt;211&gt; 384

&lt;212&gt; PRT

&lt;213&gt; Homo sapien

&lt;400&gt; 304

Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
 1 5 10 15  
 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met  
 145 150 155 160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165 170 175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu

180	185	190
Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr		
195	200	205
Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met		
210	215	220
Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn		
225	230	235
Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys		
245	250	255
Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly		
260	265	270
Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val		
275	280	285
Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr		
290	295	300
Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile		
305	310	315
Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu		
325	330	335
Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val		
340	345	350
Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile		
355	360	365
Ser Ser Glu Asn Ser Asn Pro Glu Asn Val Ser Arg Thr Arg Asn Lys		
370	375	380

<210> 305  
<211> 656  
<212> PRT  
<213> *Homo sapien*

<400> 305  
 Met Val Val Glu Val Asp Ser Met Pro Ala Ala Ser Ser Val Lys Lys  
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 Pro Phe Gly Leu Arg Ser Lys Met Gly Lys Trp Cys Cys Arg Cys Phe  
 20 25 30  
 Pro Cys Cys Arg Glu Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp  
 35 40 45  
 His Asp Asp Ser Ala Met Lys Thr Leu Arg Ser Lys Met Gly Lys Trp  
 50 55 60  
 Cys Arg His Cys Phe Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val  
 65 70 75 80  
 Gly Ala Ser Gly Asp His Asp Asp Ser Ala Met Lys Thr Leu Arg Asn  
 85 90 95  
 Lys Met Gly Lys Trp Cys Cys His Cys Phe Pro Cys Cys Arg Gly Ser  
 100 105 110  
 Gly Lys Ser Lys Val Gly Ala Trp Gly Asp Tyr Asp Asp Ser Ala Phe  
 115 120 125  
 Met Glu Pro Arg Tyr His Val Arg Gly Glu Asp Leu Asp Lys Leu His  
 130 135 140  
 Arg Ala Ala Trp Trp Gly Lys Val Pro Arg Lys Asp Leu Ile Val Met

145                    150                    155                    160  
 Leu Arg Asp Thr Asp Val Asn Lys Lys Asp Lys Gln Lys Arg Thr Ala  
 165                    170                    175  
 Leu His Leu Ala Ser Ala Asn Gly Asn Ser Glu Val Val Lys Leu Leu  
 180                    185                    190  
 Leu Asp Arg Arg Cys Gln Leu Asn Val Leu Asp Asn Lys Lys Arg Thr  
 195                    200                    205  
 Ala Leu Ile Lys Ala Val Gln Cys Gln Glu Asp Glu Cys Ala Leu Met  
 210                    215                    220  
 Leu Leu Glu His Gly Thr Asp Pro Asn Ile Pro Asp Glu Tyr Gly Asn  
 225                    230                    235                    240  
 Thr Thr Leu His Tyr Ala Ile Tyr Asn Glu Asp Lys Leu Met Ala Lys  
 245                    250                    255  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260                    265                    270  
 Leu Thr Pro Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275                    280                    285  
 Lys Phe Leu Ile Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290                    295                    300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305                    310                    315                    320  
 Val Ser Leu Leu Leu Glu Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325                    330                    335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340                    345                    350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355                    360                    365  
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu  
 370                    375                    380  
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys  
 385                    390                    395                    400  
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu  
 405                    410                    415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420                    425                    430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435                    440                    445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450                    455                    460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465                    470                    475                    480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485                    490                    495  
 Leu Lys Leu Thr Ser Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500                    505                    510  
 Asn Gly Gln Pro Glu Leu Glu Asn Phe Met Ala Ile Glu Met Lys  
 515                    520                    525  
 Lys His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly  
 530                    535                    540  
 Ala Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser  
 545                    550                    555                    560

Sub A1

Arg	Thr	Pro	Glu	Ser	Gln	Gln	Phe	Pro	Asp	Thr	Glu	Asn	Glu	Glu	Tyr
565											570			575	
His	Ser	Asp	Glu	Gln	Asn	Asp	Thr	Gln	Lys	Gln	Phe	Cys	Glu	Glu	Gln
580									585				590		
Asn	Thr	Gly	Ile	Leu	His	Asp	Glu	Ile	Leu	Ile	His	Glu	Glu	Lys	Gln
595								600			605				
Ile	Glu	Val	Val	Glu	Lys	Met	Asn	Ser	Glu	Leu	Ser	Leu	Ser	Cys	Lys
610				615						620					
Lys	Glu	Lys	Asp	Ile	Leu	His	Glu	Asn	Ser	Thr	Leu	Arg	Glu	Glu	Ile
625				630						635			640		
Ala	Met	Leu	Arg	Leu	Glu	Leu	Asp	Thr	Met	Lys	His	Gln	Ser	Gln	Leu
645									650				655		

<210> 306

<211> 671

<212> PRT

<213> Homo sapien

<400> 306

Met	Val	Val	Glu	Val	Asp	Ser	Met	Pro	Ala	Ala	Ser	Ser	Val	Lys	Lys
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Pro	Phe	Gly	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp	Cys	Cys	Arg	Cys	Phe
	20							25					30		
Pro	Cys	Cys	Arg	Glu	Ser	Gly	Lys	Ser	Asn	Val	Gly	Thr	Ser	Gly	Asp
	35							40				45			
His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Ser	Lys	Met	Gly	Lys	Trp
	50							55			60				
Cys	Arg	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser	Gly	Lys	Ser	Asn	Val
65								70			75		80		
Gly	Ala	Ser	Gly	Asp	His	Asp	Asp	Ser	Ala	Met	Lys	Thr	Leu	Arg	Asn
	85							90				95			
Lys	Met	Gly	Lys	Trp	Cys	Cys	His	Cys	Phe	Pro	Cys	Cys	Arg	Gly	Ser
	100							105			110				
Gly	Lys	Ser	Lys	Val	Gly	Ala	Trp	Gly	Asp	Tyr	Asp	Asp	Ser	Ala	Phe
	115							120			125				
Met	Glu	Pro	Arg	Tyr	His	Val	Arg	Gly	Glu	Asp	Leu	Asp	Lys	Leu	His
	130							135			140				
Arg	Ala	Ala	Trp	Trp	Gly	Lys	Val	Pro	Arg	Lys	Asp	Leu	Ile	Val	Met
145								150			155		160		
Leu	Arg	Asp	Thr	Asp	Val	Asn	Lys	Lys	Asp	Lys	Gln	Lys	Arg	Thr	Ala
	165							170				175			
Leu	His	Leu	Ala	Ser	Ala	Asn	Gly	Asn	Ser	Glu	Val	Val	Lys	Leu	Leu
	180							185			190				
Leu	Asp	Arg	Arg	Cys	Gln	Leu	Asn	Val	Leu	Asp	Asn	Lys	Lys	Arg	Thr
	195							200			205				
Ala	Leu	Ile	Lys	Ala	Val	Gln	Cys	Gln	Glu	Asp	Glu	Cys	Ala	Leu	Met
210								215			220				
Leu	Leu	Glu	His	Gly	Thr	Asp	Pro	Asn	Ile	Pro	Asp	Glu	Tyr	Gly	Asn
225								230			235		240		
Thr	Thr	Leu	His	Tyr	Ala	Ile	Tyr	Asn	Glu	Asp	Lys	Leu	Met	Ala	Lys
	245							250			255				

Sub A1  
 Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu Ser Lys Asn Lys His Gly  
 260 265 270  
 Leu Thr Pro Leu Leu Leu Gly Val His Glu Gln Lys Gln Gln Val Val  
 275 280 285  
 Lys Phe Leu Ile Lys Lys Ala Asn Leu Asn Ala Leu Asp Arg Tyr  
 290 295 300  
 Gly Arg Thr Ala Leu Ile Leu Ala Val Cys Cys Gly Ser Ala Ser Ile  
 305 310 315 320  
 Val Ser Leu Leu Leu Gln Gln Asn Ile Asp Val Ser Ser Gln Asp Leu  
 325 330 335  
 Ser Gly Gln Thr Ala Arg Glu Tyr Ala Val Ser Ser His His His Val  
 340 345 350  
 Ile Cys Gln Leu Leu Ser Asp Tyr Lys Glu Lys Gln Met Leu Lys Ile  
 355 360 365  
 Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp Leu Lys Leu Thr Ser Glu  
 370 375 380  
 Glu Glu Ser Gln Arg Phe Lys Gly Ser Glu Asn Ser Gln Pro Glu Lys  
 385 390 395 400  
 Met Ser Gln Glu Pro Glu Ile Asn Lys Asp Gly Asp Arg Glu Val Glu  
 405 410 415  
 Glu Glu Met Lys Lys His Glu Ser Asn Asn Val Gly Leu Leu Glu Asn  
 420 425 430  
 Leu Thr Asn Gly Val Thr Ala Gly Asn Gly Asp Asn Gly Leu Ile Pro  
 435 440 445  
 Gln Arg Lys Ser Arg Thr Pro Glu Asn Gln Gln Phe Pro Asp Asn Glu  
 450 455 460  
 Ser Glu Glu Tyr His Arg Ile Cys Glu Leu Val Ser Asp Tyr Lys Glu  
 465 470 475 480  
 Lys Gln Met Pro Lys Tyr Ser Ser Glu Asn Ser Asn Pro Glu Gln Asp  
 485 490 495  
 Leu Lys Leu Thr Ser Glu Glu Ser Gln Arg Leu Glu Gly Ser Glu  
 500 505 510  
 Asn Gly Gln Pro Glu Lys Arg Ser Gln Glu Pro Glu Ile Asn Lys Asp  
 515 520 525  
 Gly Asp Arg Glu Leu Glu Asn Phe Met Ala Ile Glu Glu Met Lys Lys  
 530 535 540  
 His Gly Ser Thr His Val Gly Phe Pro Glu Asn Leu Thr Asn Gly Ala  
 545 550 555 560  
 Thr Ala Gly Asn Gly Asp Asp Gly Leu Ile Pro Pro Arg Lys Ser Arg  
 565 570 575  
 Thr Pro Glu Ser Gln Gln Phe Pro Asp Thr Glu Asn Glu Glu Tyr His  
 580 585 590  
 Ser Asp Glu Gln Asn Asp Thr Gln Lys Gln Phe Cys Glu Glu Gln Asn  
 595 600 605  
 Thr Gly Ile Leu His Asp Glu Ile Leu Ile His Glu Glu Lys Gln Ile  
 610 615 620  
 Glu Val Val Glu Lys Met Asn Ser Glu Leu Ser Leu Ser Cys Lys Lys  
 625 630 635 640  
 Glu Lys Asp Ile Leu His Glu Asn Ser Thr Leu Arg Glu Glu Ile Ala  
 645 650 655  
 Met Leu Arg Leu Glu Leu Asp Thr Met Lys His Gln Ser Gln Leu

Sub A1

660

665

670

<210> 307  
 <211> 800  
 <212> DNA  
 <213> Homo sapien

&lt;400&gt; 307

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 acttcatttt tggcacataa catctttata ggacagggtt aaaatccaa tactaacagg  
 agaatgccta ggactctaag aggttttga gaatgtgtt gtaaggccca ctcataatccaa  
 ttttcttgg tcctccttgg ggtctaggag gacaggcaag ggtgcagatt ttcagaatatg  
 catcagtaag ggcactaaa tccgacccttc ctcgttccctc cttgtgttctt gggaggaaaa  
 ctatgtttc tggctgttgc toagttagca caactattcc gatcagcagg gtccagggac  
 cactgcagg tcttggcag ggggagaaac aaaacaaacc aaaaccatgg gcrgtttgt  
 ctttcagatg ggaacactc aggcataac aggtcacct ttgaaatgca tcctaagccca  
 atgggacaaa tttgacccac aaaccccttga aaaagaggtg gtcattttt ttgcactat  
 ggcttggccc caacattctc tctctgttgg ggaaaaatgg ccacccgttgggaaatg  
 ttacaatact atccgcagg ttcacccctt ctgttaggg gaaaggccaaat ggagtggaaat  
 accttatgtc caagcttctt ttcatttggaa ggagaataca ctatgcggaaat cttggaaat  
 acatcccaca ggaggacctc tcagcttacc cccatatcct agcctcccta tagctccct  
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 60  
 120  
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 240  
 300  
 360  
 420  
 480  
 540  
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 720  
 780  
 800

<210> 308  
 <211> 102  
 <212> PRT  
 <213> Homo sapien

<220>  
 <221> VARIANT  
 <222> (1)...(102)  
 <223> Xaa = Any Amino Acid

&lt;400&gt; 308

Met	Gly	Xaa	Phe	Val	Phe	Gln	Met	Gly	Asn	Thr	Gln	Ala	Ser	Thr	Gly
1							10					15			
Ser	Pro	Leu	Lys	Cys	Ile	Leu	Ser	Gln	Trp	Asp	Lys	Phe	Asp	Pro	Gln
							20				25		30		
Thr	Leu	Glu	Lys	Glu	Val	Ala	His	Phe	Phe	Cys	Thr	Met	Ala	Trp	Pro
							35				45				
Gln	His	Ser	Leu	Ser	Asp	Gly	Glu	Lys	Trp	Pro	Pro	Glu	Gly	Ser	Thr
							50				55		60		
Asp	Tyr	Asn	Thr	Ile	Leu	Gln	Leu	Asp	Leu	Phe	Cys	Lys	Arg	Glu	Gly
65								70			75		80		
Lys	Trp	Ser	Glu	Ile	Pro	Tyr	Val	Gln	Ala	Phe	Phe	Ser	Leu	Lys	Glu
							85			90		95			
Asn	Thr	Leu	Cys	Lys	Ala										
					100										

&lt;210&gt; 309

&lt;211&gt; 9

Sub A1

<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in the lab  
  
<400> 309  
Leu Met Ala Glu Glu Tyr Thr Ile Val  
1 5  
  
<210> 310  
<211> 9  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in the lab  
  
<400> 310  
Lys Leu Met Ala Lys Ala Leu Leu Leu  
1 5  
  
<210> 311  
<211> 9  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in the lab  
  
<400> 311  
Gly Leu Thr Pro Leu Leu Leu Gly Ile  
1 5  
  
<210> 312  
<211> 10  
<212> PRT  
<213> Artificial Sequence  
  
<220>  
<223> Made in the lab  
  
<400> 312  
Lys Leu Val Leu Asp Arg Arg Cys Gln Leu  
1 5 10  
  
<210> 313  
<211> 1852  
<212> DNA  
<213> Homo sapiens

*Sub A1*

<400> 313

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 aaaaccacct atgacaagcc cacagccaaac ataatactaa atggggaaaa gttagaagca 120  
 ttccctctga gaactgcaac aataaataca aggatgctgg attttgc当地 atgcctttc 180  
 tgtgtctgtt gagatgctta tgtacttg ctttaattc tggttatgtt attatcacat 240  
 ttattgactt gctgtgtta gaccgaaaga gctgggtgt ttctcaggag ccaccgtgtg 300  
 ctgcggcagc ttccggataa cttgaggctg catcaactggg gaagaaacac aytccgtcc 360  
 gtggcgctga tggctgagga cagagctca gtgtggctc tctgcgactg gcttcttcgg 420  
 ggagttctc cttcatagtt catccatatg gctccagagg aaaattat tattttgtta 480  
 tggatgaaga gtattacgtt gtgcagatat actgcagtgt cttcatctc tgatgtgtga 540  
 ttgggttaggt tccaccatgt tgccgcagat gacatgatt cagttacgtgt gtctggctga 600  
 aaagtgtttt tttgtgaatg tattttgtgg tttctggatc tcattctctg tgggtggaca 660  
 gcttctcca ctttgcgttga agtgacactgc tgccagaag tttgatggct gaggagttata 720  
 ccattcgtaa tgcattttc atttccgtca tttttctc cctggatggc cagggggagc 780  
 ggcaagagca acgtggcac ttctggagac cacaacgact cctctgtgaa gacgcttggg 840  
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 aacgtggctcg cttggggaga ctacgtac aggccttca tggatcccag gtaccacgtc 960  
 catggagaag atctggacaa gctccacaga gctccctggt ggggtaaagt cccagaaag 1020  
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 tgccaggaag atgaatgtgc gttaatgttg ctggAACatg gcactgtatcc aaatatttcca 1260  
 gatgagttatg gaaataccac tctacactat gctgtctaca atgaagataa attaatggcc 1320  
 aaagcactgc tcttatacgg tgctgatatac gaatcaaaaa acaagcatgg cctcacacca 1380  
 ctgctacttg gtatacatga gcaaaaacag caagtggta aatttttaat caagaaaaaa 1440  
 gcaatttaa atgcgttgc tagatatggc agaactgtc tcataacttg tggatgttgc 1500  
 gatcagccaa gtatgtcag ccctctactt gagcaaaaat ttgatgtatc ttctcaagat 1560  
 ctggaaagac ggccagagag tatgtgtt ctgtcatca tcattgtatc tgccagttac 1620  
 tttctgacta caaagaaaaa cagatgttaa aaatcttcc tggggatggc aatccagaac 1680  
 aagacttaaa gctgacatca gaggaagagt cacaaggct tggggatggc gaaaacagcc 1740  
 agccagagct agaagatttta tggcttattga agaagaatga agaacaacggc agtactcatg 1800  
 tgggattccc agaaaacctg actaacggtg ccgcgtctgg caatgtgtat ga 1852

<210> 314

<211> 879

<212> DNA

<213> Homo sapiens

<400> 314

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 tgcaagtgggt gctgcactg cttccctgc tgccaggggg gccggcaagag caacgtggtc 180  
 gcttggggag actacatga cagcgccttc atggatccca ggtaccacgt ccatggagaa 240  
 gatctggaca agctccacag agctgcctgg tggggtaaag tccccagaaa ggatctcatc 300  
 gtcattgtca gggacacggc tggatgttgc tggatgttgc tggatgttgc 360  
 ctggcctctg ccaatggaa ttcagaagatg tggatgttgc tggatgttgc 420  
 cttaatgtcc ttgacaacaa aaagaggaca gctctgacaa aggccgtaca atgcacggaa 480  
 gatgaatgtt gttatgttgc tggatgttgc tggatgttgc tggatgttgc 540  
 gggaaatacca ctctacacta tgctgtctac aatgaagata attaatggc caaagcactg 600  
 ctcttatacgt gttatgttgc tggatgttgc tggatgttgc tggatgttgc 660  
 ggtatacatg agcaaaaaaca gcaagtgggtt aaatggggatggc tcaagaaaaaa agcgaatttta 720

*Sub A1*

aatgcgctgg atagatatgg aagaactgct ctcatacttg ctgtatgttggatcagca 780  
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 cggccagaga gtagctgtt tctagtcata atcatgtaa 879

<210> 315  
 <211> 293  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Met His Leu Ser Phe Pro Ala Phe Leu Pro Pro Trp Met Asp Arg Gly  
 5 10 15

Ser Gly Lys Ser Asn Val Gly Thr Ser Gly Asp His Asn Asp Ser Ser  
 20 25 30

Val Lys Thr Leu Gly Ser Lys Arg Cys Lys Trp Cys Cys His Cys Phe  
 35 40 45

Pro Cys Cys Arg Gly Ser Gly Lys Ser Asn Val Val Ala Trp Gly Asp  
 50 55 60

Tyr Asp Asp Ser Ala Phe Met Asp Pro Arg Tyr His Val His Gly Glu  
 65 70 75 80

Asp Leu Asp Lys Leu His Arg Ala Ala Trp Trp Gly Lys Val Pro Arg  
 85 90 95

Lys Asp Leu Ile Val Met Leu Arg Asp Thr Asp Val Asn Lys Arg Asp  
 100 105 110

Lys Gln Lys Arg Thr Ala Leu His Leu Ala Ser Ala Asn Gly Asn Ser  
 115 120 125

Glu Val Val Lys Leu Val Leu Asp Arg Arg Cys Gln Leu Asn Val Leu  
 130 135 140

Asp Asn Lys Lys Arg Thr Ala Leu Thr Lys Ala Val Gln Cys Gln Glu  
 145 150 155 160

Asp Glu Cys Ala Leu Met Leu Leu Glu His Gly Thr Asp Pro Asn Ile  
 165 170 175

Pro Asp Glu Tyr Gly Asn Thr Thr Leu His Tyr Ala Val Tyr Asn Glu  
 180 185 190

Asp Lys Leu Met Ala Lys Ala Leu Leu Leu Tyr Gly Ala Asp Ile Glu  
 195 200 205

Ser Lys Asn Lys His Gly Leu Thr Pro Leu Leu Leu Gly Ile His Glu  
 210 215 220

Gln Lys Gln Gln Val Val Lys Phe Leu Ile Lys Lys Lys Ala Asn Leu  
225 230 235 240

Asn Ala Leu Asp Arg Tyr Gly Arg Thr Ala Leu Ile Leu Ala Val Cys  
245 250 255

Cys Gly Ser Ala Ser Ile Val Ser Pro Leu Leu Glu Gln Asn Val Asp  
260 265 270

Val Ser Ser Gln Asp Leu Glu Arg Arg Pro Glu Ser Met Leu Phe Leu  
275 280 285

Val Ile Ile Met  
290

<210> 316

<211> 584

<212> DNA

<213> Homo sapiens

<400> 316

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gaggcttatac actaatagga aggggagcta tagggaggct aggatatggg ggttaagctga 180
gagggtccccc tggggatgt aaatttcaag ctttgcataag tgtatttcc ttcaatgaaa 240
agaaagcttg gacataaggt atttcactcc atttgccttc cctcttacag aaaaggtcaa 300
gctgcaggat agtattgtaa tctgtacttc cctcagggtgg ccattttcc ccatcagaga 360
gagaatgttggggccaagcc atagtgcaga aaaaaaaaaatg agccacctct tttccaggg 420
tttgtgggtc aaatttgcctt cattggctta ggatgcattt caaaggtgag cctgttcatg 480
cctgagtgtt tcccatctga aagacaaaaac tgccccatggt tttggtttgc tttgtttctc 540
ccccgtccca agaactatca aactcctgag ccaacaacta aaaa 584

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<210> 317

<211> 829

<212> DNA

<213> Homo sapiens

<400> 317

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agaatgctta ggactctaacc aggttttga gaatgttgg tgaaggccca ctcataatccaa 180  
tttttcttgg tcctcccttgt ggtctaggag gacaggcaag ggtgcagatt ttcaagaatgt 240  
catcagtaag ggccactaaa tccgacccctc ctcgttccctc cttgtggctt gggaggaaaa 300  
ctagtgttcc tgggtgtgtc tcagtgagca caactattcc gatcagcagg gtcaggggac 360  
caactgcagg tcttgggcag ggggagaaaac aaaacaaaacc aaaaccatgg gcagttttgt 420  
ctttcagatg ggaaacactc aggcatcaac aggctcacct ttgaaatgca tcctaaagccca 480  
atgggacaaa ttgacccac aaacccttggaa aaaagagggtg gtcattttt tttgcactat 540  
ggcttggccc caacattctc tctctgtatgg ggaaaaatgg ccacctgagg gaagtacaga 600  
ttacaatact atccctgcagc ttgacccctt ctgtaaaggaggaaggccaaat ggagtgaaat 660  
acctttagtgc caagctttctt tttcatttggaa ggagaataca ctatqaaatqaaat 720

Sub A1

acatcccaca ggaggaccc tcagcttacc cccatatccct agcctcccta tagctccct 780  
tcctattagt gataaggctc ~~ctctaatcac~~ ccccacccag aagaaaata 829

D E G H I L M F P R S T C V